FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper and for Transmission Abroad,]

No. 2366.—Vol. L.

LONDON, SATURDAY, DECEMBER 25, 1880.

[SUPPLEMENT.] { PRICE SIXPENCE PER ANNUM, BY POST £1 40.

MR. JAMES H. CROFIS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

Business transacted in all descriptions of Mining Stocks and Shares Business transacted in all descriptions of Minne Stocks and Shares (British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Insurance, Assurance, Telegraph, Tramway, Bhipping, Canal, Gas, Water, and Dock Shares, and all Miscellaneous Shares.

Business negociated in Stocks and Shares not having a general market value.

Every Friday a general and reliable List issued (a copy of which will be forwarded regularly on application), containing closing prices of the week.

MINES INSPECTED.

BANKERS: CITY BANK, LONDON-SOUTH CORNWALL BANK, St. AUSTELL.

| SPECIAL DEALINGS in the following, or part:—
| 50 Aberllyn, 12s. 6d. | 100 Herodsfoot, 16s. 3d. | 50 Hingston Down, £1 63 | 50 Hingston Down, £1 64 | 50 Hingston Down, £1 6

. SHARES SOLD FOR FORWARD DELIVERY (ONE, TWO, OR THREE MONTHS) ON DEPOSIT OF TWENTY PER CENT.

SPECIAL BUSINESS in North D'Eresby Mountain, West Godolphin, and Wheal Crebor at close prices.

RAILWAYS-SPECIAL BUSINESS. FOREIGN BONDS—SPECIAL BUSINESS.

AMERICAN STOCKS AND SHARES—SPECIAL BUSINESS.

Fortnightly accounts opened on receipt of the usual cover in these and all Stock Exchange Securities.

JAMES H. CROFTS, 1, FINCH LANE, LONDON. ESTABLISHED 1842.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER 44, THREADNEEDLE STREET, LONDON, E.C. ESTABLISHED 1867.

IMPORTANT TO SHAREHOLDERS AND INVESTORS.

There is still a rush for FOREIGN GOLD MINES, to the neglect of SOUNDER INVESTMENTS nearer home, but signs of a coming reaction are not wanting, and it may be safely predicted that the present mania must, sooner or later, result in disappointment and loss to the majority of those persons who place their money in such schemes at the extravagant rates now ruling. On the other hand, it cannot be denied that a very small proportion of the amount thus lavishly subscribed, if properly and honestly devoted to the working and development of SOUND BRITISH MINES, could hardly fail to produce very profitable results within a comparatively short period. Reference is here made more particularly to TIN Mines, for which there is an excellent prospect in the immediate future. The market for this metal is steady, and there is every probability that a considerable advance will take place early in the New Year; but, with Tin even at its present price, good profits can be made and maintained. Investors will, therefore, do well to turn their attention in the direction here indicated, as, by judicious purchase at present quotations, they may not only ensure good dividends, but a substantial profit on their outlay within the next few months. The following Mines are strongly recommended for Safe and Profitable Investment, and shares should be secured at once:—
WHEAL GREEVILLE.—This is one of the best mines in Cornwall, and will shortly occupy a prominent position. A Dividend will be declared at the next meeting (in January), and regular and increasing returns may be confidently relied upon.
WEST GODOLPHIN.—This valuable property is about to be vigorously re-IMPORTANT TO SHAREHOLDERS AND INVESTORS.

meeting (in January), and regular and increasing returns may be confidently relied upon.

WEST GODOLPHIN.—This valuable property is about to be vigorously reworked under the same management as Wheal Grenville. Profitable returns may be confidently expected early in the coming year, and shares are likely to advance 100 or 200 per cent.

WHEAL PEEVOR.—This is one of the best Dividend Mines in the List, and, at present price, will pay an investor over 13 per cent. per annum. A Dividend of £1 per share has been declared this week.

WEST PEEVOR (adjoining Wheal Peevor, on the same lodes).—This mine is rapidly approaching a Dividend position, and will probably prove as great a success as its neighbour.

NEW PEEVOR (adjoining West Peevor, on the same lodes).—This is a comparatively young mine, but possessing very good prospects, and the shares are worth buying for a rise.

WHEAL BOYS.—For particulars of this property, see prospectus on page 1475. These shares are particularly recommended for an early and substantial rise in value.

N. R.—The last Three Mines are all under the same excellent pursership and

50 E. Boman Grav., 158 6 40 East Caradon. 5 East Pool. 20 Emma, £3½.

WHEAL BOYS.—For particulars of this property, see and substantial rise in value.

N.B.—The last Three Mines are all under the same excellent pursership and management as Wheal Peevor.

MR. BUMPUB has SPECIAL BUSINESS in the undermentioned:—

50 Almada, 9s. 6d. 25 Frontino, 25½. 100 Pen-yr-Orsedd, 22s. 6d 100 Bodidris. 50 Flagstaff, 27s. 50 Furser of Wales. 50 Flagstaff, 27s. 50 Parrys Copper, 22s. 50 Face Laxey. 100 Carnarvon. 50 Hingston, 27s. 6d. 15 Richmond, 216½. 20 Carn Bres. 100 Indian Glenrock, 28s 6 15 Richmond, 216½. 20 Ruby, 26½. 10 Roman Gravels. 100 Lordond, 22½. 20 Mellanear, 25½. 2 40 Marke Valley, 36s. 6d. 10 Mona, £15. 50 No. Herodsfoot, 11s. 20 North Busy. 100 Nouveau Monde, 26s 50 New Peevor, £2½. 75 Port Phillip, 12s. 75 Port Nigel. 20 Panucillo, £6½.

SPECIAL BUSINESS, at close prices, in the SHARES of all the principal HOME and FOREIGN MINES.

Mr. Bumpus devotes special attention to these Securities, and is in a position of afford reliable information and advice to intending investors and others.

WILLIAM HENRY BUMPUS, SWORN BROKER. OFFICES: 44, THREADNEEDLE STREET, LONDON, E.C. ESTABLISHED 1867.

MR. THOMAS THOMPSON, JUN., STOCK BROKER,
16, ST. SWITHIN'S LANE, E.C.
Mr. THOMPSON transacts business in every species of Stock Exchange and
Mining Securities. Mining Securities.

Mr. THOMPSON affords reliable information to investors, and can give, when desired, a list of first-class Stocks and Shares, yielding 4 to 10 per cent. dividends upon present prices.

upon present prices.

Mr. Thompson's weekly Circular may be had on application. MR. JOHN RISLEY, STOCK AND SHARE BROKER,

WEST CARADON, PARYS, and NEW WEST CARADON specially recom

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MESSRS. ENDEAN AND CO., STOCK AND SHARE DEALERS, 85, GRACECHURCH STREET, LONDON, E.C. ESTABLISHED 1861. BANKERS: LONDON AND WESTMINSTER, Lothbury; and BARCLAY, BEVAN, and CO., Lombard-street, E.C.

RRITISH AND FOREIGN MINING OFFICES. MESSES. PETER WATSON AND CO., 18, AUSTIN FRIARS, OLD BROAD STREET, LONDON, E.C.

BANKERS: THE ALLIANCE BANK (Limited). MESSES. PETER WATSON AND CO.'S

BRITISH AND FOREIGN MONTHLY MINING NEWS -STOCK AND SHARE INVESTMENT NOTES - MINES, MINERALS, AND METAL MARKETS - SHARE LIST, No. 825, Vol. XV., for DECEMBER month, will be sent to customers on application early in January.

Annual Subscription...... 5s. | Single Copy....

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M R. ALFRED E. COOK
DEALER in BRITISH and FOREIGN STOCKS and SHARES
of EVERY DESCRIPTION.
76, OLD BROAD STREET, LONDON.
ESTABLISHED 1853. COOKE,

SPECIAL NOTICE. SPECIAL NOTICE.

In consequence of the CHRISTMAS HOLIDAYS, the INVESTORS' GAZETTE will not be published to-day. EVERYONE who desires to secure PRO-FITABLE INVESTMENTS should send for the INVESTORS' GAZETTE, to be published on 31st instant. SPECIAL NEW YEAR'S NUMBER. Post free three stamps.

Published by ALFRED E. COOKE,
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STOCKS AND SHARES, FOREIGN BONDS, TELEGRAPHS, TRAMWAYS, RAILWAYS, AND OTHER LEADING SECURITIES.

M. R. JAMES STOCKER, STOCKBROKER, 2, CROWN COURT, THREADNEEDLE STREET, LONDON, E.O. ESTABLISHED 1848.

Business transacted in all Stock Exchange Securities. British and Foreign Mines for cash or fortnighly accounts opened on receipt of the usual cover.

BANKERS: LONDON AND WESTMINSTER.

BRITISH AND FOREIGN MINES, RAILWAYS, TELEGRAPHS, INSURANCES, and EVERY DESCRIPTION OF SECURITY DEALT IN, at net prices, cash or for the account. Mines inspected in any part of the United Kingdom for a small charge. No charge for recommendations to ordinary customers, but to those who have not dealt with Mr. R., a charge of One Guinea is made for the Select List of Mines good for Investment or Speculation. Mr. REVNOLDS'S opinions are unbiassed by proprietorship or otherwise, and his facts are gathered at considerable trouble and expense.

Mr. Reynolds is also a buyer and seller of Shares in the leading Mines

such as Carn Brea, Cook's Kitchen, East Pool, West Basset, South Frances, West Kitty, North Busy, Wheal Peevor, West Peevor, New Kitty, &c.

Apply to—JOHN B. REYNOLDS, STOCK AND SHARE DEALER, 37, WALBROOK, LONDON, E.C. ESTABLISHED 23 YEARS.

BANKERS: LONDON JOINT STOCK BANK, Princes-street.

REYNOLDS'S PAMPHLET
On Buying and Selling, and How to Make Money Safely, is now ready. For arded gratis on application to John B. REYNOLDS, 37, Walbrook, London, E.C.

WEST KITTY.—Mr. REYNOLDS advises the purchase of these Shares, and BUYERS or SELLERS can find a ready market on

application to him either personally, by telegram, or by letter. FERDINAND R. KIRK, 5, BIRCHIN LANE,

FORTNIGHTLY ACCOUNTS opened, on receipt of the usual "cover," in Railways Home and Foreign, Mining Shares, Foreign Bonds, and certain Miscellaneous Securities.

"THE WEEK."—A SEPARATE EDITION from that which appears in the Mining Journal is published every Wednesday evening, containing "Notes and Hin on the Stock Markets," with Closing Prices. May be had on application.

BANKERS: LONDON AND WESTMINSTER, Lothbury.

EKINS AND CO., STOCK AND SHARE DEALERS 14, QUEEN VICTORIA STREET, LONDON, E.C. Special information respecting Tin, Lead, and Copper Mines.

PENNINGTON AND CO., SWORN BROKERS,
3, ROYAL EXCHANGE BUILDINGS, E.C.,
Transact business in every description of Stocks and Shares.

Transact business in every description of stocks and Shares.

ESTABLISHED 1869.—BANKERS: ALLIANCE.

TREVINCE CONSOLS.—We have this week returned from a visit to this mine, and most strongly advise the immediate purchase of shares at 22s. 8d. They will, in our opinion, have a big rise very shortly.

SPECIAL BUSINESS in Devonport and Tiverton and Gray's Brewery shares.

M E S S R S. T H O M S O N A N D C O.,

STOCK AND SHARE DEALERS.

44, TH READ NEED LE STREET, E.C.

Business transacted in every description of Stocks and Shares.

TREVINCE CONSOLS.—The rich lode discovered close to surface continues, and is improving: 40 tons of copper ore has been sampled this week. Shares should be bought at once. Price about 20s. See report.

ORACE J. TAYLOR, STOCK AND SHARE DEALER,
(Late of the PORT PHILLIP AND VICTORIA [London] MINING
COMPANIES, Limited.)

38, GREAT ST. HELEN'S, LONDON, E.C.
Business transacted in every description of Stocks and Shares. Fortnightly

transacted in every description of Stocks and Shares. F pened on receipt of usual cover. liverton, West Lisburne, and East Lovell should be secured portant rise.

BANKERS: CENTRAL BANK OF LONDON (Limited).

| Marting | Bankers | Central Bank of London (Limited). | Marting | Bankers | Central Bank of London (Limited). | Marting | Bankers | Central Bank of London (Limited). | Markers | Central Bankers | Central Bank

THE "DIFFERENTIAL" PUMPING ENGINE

(DAVEY'S PATENT),

FOR

DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION,
SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL
PUMPING PURPOSES.

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HATHORN, DAVEY, and Co. have Patterns of "Differential" Engines of all sizes, from 5 to 500-horse power, and have facilities for supplying very powerful Engines and Pumps at a short notice.

See Illustrated Ad entisement every alternate week.

C H A R L E S T H O M A S, MINING AGENT, STOCK AND SHARE DEALER, 3, GREAT ST. HELEN'S, LONDON, E.C.

M R. A L F R E D T H O M A S, MINING AGENT, AND STOCK AND SHARE DEALER, 10, COLEMAN STREET, LONDON, E.C.

SOUTH WHEAL CREBOR.—Mr. ALFRED THOMAS has business both as buyer ad seller in these shares.

and seller in these shares.

DENBIGHSHIRE CONSOLIDATED.

Having had several enquiries respecting the late discovery of lead, I am in a position now to corroborate the official report. The lode will produce fully 10 tons of lead per fathom, being 3 ft. wide, of solid galena. Further particulars furnished upon application, and shares supplied at closest market price.

Just published.

"What to Select, and What to Avold," by ALFRED THOMAS, 10, Coleman street, London, E.C. Will be forwarded on receipt of 12 stamps.

ESTABLISHED 1852. H ENRY GOULD SHAR STOCK AND SHARE BROKER, 42, POULTRY, LONDON, E.O. Bankers-London and County Bank, Lombard-street, London, E.C.

MR. EDWARD ASHMEAD, 2, DRAPER'S GARDENS, LONDON, E.C., MINING SECRETARY, AUDITOR, AND ACCOUNTANT.

MR. E. J BARTLETT, BRITISH AND FOREIGN STOCK AND SHARE DEALER, NO. 30, GREAT ST. HELEN'S, LONDON, E.C.

EAST LOVELL.—The rise in price has commenced. Further improvement xpected. Special business at close prices.

N.B.—Less prices might be accepted in some cases if offers were

made.

SPECIAL NOTE.—Any of the above shares will be sold for payment end of January, 1881, on 25 per cent. of the purchase-money being paid on purchasing.

MR. W. B. COBB, STOCK AND SHARE DEALER, 29, BISHOPSGATE-STREET, LONDON, E.O.
Business transacted in every description of Stocks and Shares.
Special Business in Potosi, Buchle United, West Lisburne, and East Lovell.
BANKERS; ALLIANCE BANK (Limited).

R. C. H. A. R. L. E. S. J. S. I. M. S., MINING AGENT, STOCK AND SHARE DEALER, 2, DRAPER'S GARDENS, LONDON, E.C.

MR. F. R. E. E. D. W. I. L. S. O. N.,
DEALER IN STOCKS AND SHARES,
30. FINSBURY CIRCUS. E. C.
Mr. WILSON begs to direct attention to the fact that he has, at the instance of numerous correspondents, opened an agency for the purchase and sale of Stocks and Shares.
Mr. WILSON has had a life-long initiation into the mysteries of British and Foreign Mines, both as a large holder of shares and manager of companies, and he thinks he is qualified by long and dear experience to give sound and honest advice as to investments in such securities.
All transactions must be for cash, or fortnightly settlement, and speculative bargains in mining shares will not be entertained without substantial cover.
Mr. WILSON subjoins a list of mines with whose intrinsic or prospective merits he is intimately acquainted.
East Crebor.
East Van.

e is intimate
East Crebor.
East Van.
Derwent.
Leadhills.
Lead Era.
Morfa Du. Brazilian Gold. Colombian Hydraulic. Consolidated. Devala Moyar.

North Herodsfoot. Parys Copper Corporation. Roman Gravels. South Caradon. Wheal Basset. Wheal Grenville. Frontino and Bolivia. Richmond. Ruby. South East Wynaad. South Indian.

The following Shares are strongly recommended for a rise:—North Herodsfoot, Wheal Basset, La Plata, Nouveau Monde, West Caradon, Consolidated, Parys Copper, Moria Du, and Roman Gravels, in all of which Mr. Wilson has special business.

MINING SHARES, AND HOW TO DEAL IN THEM.

Published for the Author at the MINING JOURNAL Office, 26, Fleet-

R A N C I S F R A N C I S ,
CORN EXCHANGE CHAMBERS, CHESTER,
Has SPECIAL BUSINESS in HALKYN DISTRICT DRAINAGE, RHYDALUN,
RHOSESMOR, NORTH HENDRE, and PEN-YR-ORSEDD.
Also, in PITANGUI (Gold), BRAZILIAN GOLD MINES, SANTA BARBARA, and WEST FRONTINO.

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Having VISITED the Mining Districts of MINERA, LI D'ERESBY, and BRITISH SILVER-LEAD. Reports car charges.
ON SALE — HORIZONTAL, VERTICAL, and PORTABLE WINDING and
PUMPING ENGINES, LIFTS OF PUMPS, PIT HEADS, SAW BENCHES,
MINING STEEL, a complete SET of GOLD MINING PLANT, &c. Enquiries

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GOLD, SILVER-LEAD MINE, LEASES, with MACHINERY, also LEAD
SMELTING and DESILVERISING WORKS ON SALE or TO LET. Full particulars on application.

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M ANUFACTURERS OF EVERY DESCRIPTION OF IMPROVED

Patent Round and Flat Wire Ropes

From the very best quality of Charcoal and Patent Steel Wire. Galvanised Wire, Ropes for Ships' Rigging, Galvanised Signal and Fencing Strand, Copper Rope, Lightning Conductors, Colliery Ropes and Steam Plough Ropes made from the best Patent Improved Steel Wire

PATENT ROUND AND FLAT HEXP ROPES,
Hemp, Flax, Engine Yarn, Cotton Waste, Tarpauling, Oil Sheets, Brattice
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All communications to be forwarded to the BIRMINGHAM ADDRESS.

JOSEPH FIRTH AND SONS' New Patent Brick-making Machine

Embraces the following advantages-viz.:

Simplicity, strength, and durability. Compactness and excellence of mechanica arrangements, large producing capabilities, moderate cost.

It makes two bricks at once, and will make 2,000 to 14,000 plastic pressed bricks per day, hard enough to go direct to the kiln without drying; or it will make the bricks thoroughly plastic if required. For works requiring a machine at less cost the machine is made to turn out one brick at once, and is capable of producing 8000 bricks per day.

The Machine can be seen at work daily at the Brickworks of the Patentees, JOSEPH FIRTH AND SONS, WEBSTER HILL, DEWSBURY, as also their Patent Gas Kiln for Burning Bricks, which possesses the following amongst other advantages, viz.:—Economy in Fuel, Rapidity and Quality of Work, even Distribution of Heat, and Total Consumption of Smoke.

[See Rustrated Advertisement every alternate week.]

[See Illustrated Advertisement every alternate week.]







Paris, Order of the Crows

A DIPLOMA-HIGHEST OF ALL AWARDS-given by the Geographical Congress, Paris, 1875-M. Favre, Contractor, having exhibited the McKean Drill alone as the Model Boring Machine for the ST. GOTHARD TUNNEL.

SILVER MEDAL of the Highland and West of Scotland Agricultural Society, 1875-HIGHEST AWARD.

At the south end of the St. Gothard Tunnel, where

THE MCKEAN ROCK DRILLS

Are exclusively used, the advance made during eight consecutive weeks, ending February 7, was 24.90, 27.60, 24.80, 26.10, 28.30, 27.10, 28.40, 28.70 metres. Total advance of south heading during January was 121.30 metres, or 133 yards.

In a series of comparative trials made at the St. Gothard Tunnel, the McKean Rock Drill continued to work until the pressure was reduced to one-half atmosphere (71 lbs.), showing almost the entire motive force to be available for the blow against the rock—a result of itself indicating many advantages.

The GREAT WESTERN RAJLWAY has adopted these Machines for the SEVERN TUNNEL; the LONDON AND NORTH-WESTERN RAILWAY for the FESTINIOG TUN-NEL: and the BRITISH GOVERNMENT for several Public Works. A considerable number of Mil., ng Companies are now using them. Shafts and Galleries are driven at from three to six times the speed of hand labour, according to the size and number of machines employed, and with important saving in cost. The ratio of advantage over hand labour is greatest where the rock is hardest.

These Machines possess many advantages, which give them value unapproached by any other system of Boring Machine.

THE MCKEAN ROCK DRILL IS ATTAINING GENERAL CSE THROUGHOUT THE WORLD FOR MINING, TUN-NELLING. QUARRYING, AND SUB-MARINE BORING.

The McKEAN ROCK DRILLS are the most powerful—the most portable—the most durable—the most compact—of the best mechanical device. They contain the fewest parts—have no weak parts-act without shock upon any of the operating parts-work with a ower pressure than any other Rock Drill-may be worked at a higher pressure than any other -may be run with safety to FIFTEEN HUNDRED STROKES PER MINUTE—do not require a mechanic to work them—are the smallest, shortest, and lightest of all machines-will give the longest feed without change of tool-work with long or short stroke at pleasure of operator.

The same Machine may be used for sinking, drifting, or open work. Their working parts are best protected against and accidents. The various methods of mounting them are the most efficient.

N.B.-Correspondents should state particulars as to character of work in hand in writing us for information. on receipt of which a special definite answer, with raference to our full illustrated catalogue, will be sent,

FORTABLE BOILERS, AIR COMPRESSORS, BORING STEEL, IRON, AND FLEXIBLE TUBING.

The McKean Drill may be seen in operation daily in London.

McKEAN AND CO.

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SEARLS, COMPANY,

CELEBRATED MINING STEEL, CAST STEEL FOR TOOLS, SHEAR, BLISTER, AND SPRING STEEL.

Cast Steel Drills. Solid Steel Hammers. Steel Picks. Steel Wedges.

Saws. Files. Wagon Springs. Shovels.

Anvils. Vices. Bellows. Engineers' Tool F.

CANNON STEEL WORKS, SHEFFIELD.

STEVENS' UNDERGROUND WINDING ENGINE,

DESIGNED FOR USING COMPRESSED AIR OR STEAM.

SIMPLE, COMPACT, PORTABLE. Silver Medal, Royal Cornwall Polytechnic Society, 1876.

No. 1 size, 7 in. single cylinder, with 2 ft. drums.
No. 2 size, 9 in. single cylinder, 2 ft. 6 in. drums.
A,— 6 in. double cylinder, with 2 ft. 3 n drums.
B,— 8 in.
C,—10 in.
D,—12 in.
D,—12 in.
D,—14 in.
D,—14 in.
D,—17 in.
D,—18 in.
D,—19 in. MANUFACTURED BY

THE USKSIDE CO.,

NGINEERS, MAKERS OF PUMPING AND WINDING MACHINERY, AND FORGINGS OF EVERY DESCRIPTION.

NEWPORT, MON.

Agents for the six Northern Counties-TANGYE BROTHERS, ST. NICHOLAS BUILDINGS, NEWCASTLE-ON-TYNE. [This Advertisement appears fortnightly.]

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Established 1848. Samples and prices on receipt of specification.

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Millimeter holes perforated in sheet-copper, brass, IRON, steel, and zinc.

CERTIFICATE OF MERIT Awarded by the Mining Institute of Cornwall for

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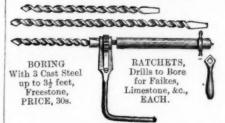
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Manufacturers of Stamps-Grates, Sieves, and Riddles, for Mining and other purposes, by Self-acting Steam Machinery.

SPECIALITY.—Thick Copper, Brass, Zinc, and IRON Perforations, Classifying-Sieves, Pierced Pulveriser and Stamps-Grates up to 289 holes to the square inch, Copper-bottom "Tinsifts," Spigot and Faucet Zinc Air-pipes, Powder Charges, &c.

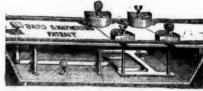
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Depot for Colliery Specialities: B67, ROBERTSON STREET, GLASGOW.





BAIRD'S IMPROVED SOLID MOULDED GUTTA PERCHA PUMP BUCKETS



BAIRD AND MACPHERSON'S PATENT TUB GREASER.

TO HEADS OF FAMILIES AND PERSONS FURNISHING.

THOMPSON AND CO.

THREE PARCELS OF CROCKERY,

No 1.—One DINNER SERVICE, Marone, Emerald, Blue, or Pink and Gold, for Twelve Persons; one BREAKFAST SERVICE, same choice of Colours and Gold; one TOILET SET, with Slop Jar and Sponge Tray, same choice of Colours and Gold. FREE ON RAIL FOR £10. Quotations for goods of higher quality on application.

No. 2.—One DINNER SERVICE, Ruby, Emerald, or Blus and Gold; one TEA SERVICE (China), same choice of Colours and Gold; one TOILET SET, same choice of Colours and Gold. FREE ON RAIL FOR £2 5s.

No. 3.—One DINNER SERVICE, Emerald or Blue, not Gilt; one TEA SERVICE (Earthenware), ditto ditto; one TOILET SET ditto ditto; one SET JUGS, ditto ditto. FREE ON RAIL FOR £1 5s.

The Goods are of sound quality and sterling value, and the difference in price from what is usually charged in shops is the cost to the public of retail profits and credit.

Letters to THOMPSON AND CO., STOKE-ON-TRENT.

Cheques crossed Manchester and Liverpool District Bank, Burslem.

Wheat Boys, Redruth.

In 3000 Shares.

THE COST-BOOK SYSTEM.

UNDER THE SAME PURSERSHIP AND MANAGEMENT AS WHEAL PEEVOR AND WEST PEEVOR. BANKERS—THE CORNISH BANK (LIMITED), REDRUTH.

The Mine is situated in the parish of Redruth, and is bounded on the north by Wheal Peevor, on the east by Treskerby and Peevor Consols Mines, and on the west by West Wheal Peevor and Wheal Prussia, and is consequently almost surrounded by those well-known mines. The entire district is rich in mineral wealth. The present profits at Wheal Peevor are from £10,000 to £12,000 per annum on an outlay of less than £23,000. West Wheal Peevor on an outlay of less than £6000 is commanding a market value of £50,000, and Wheal Prussia, although the company has only been recently formed, is rapidly rising in value. The lodes of Wheal Boys are the same as of Treskerby Mine, and are eight in number, from which minerals of the value of £589,468 were extracted during the last working of the mine ending in 1828. Of this large amount a considerable proportion was divided amongst the fortunate shareholders.

amongst the fortunate shareholders.

For some three years past the operations at Wheal Boys have been confined to exploring the mine at and about the deep adit level (50 fathoms from surface), where an important discovery of tin has been made on one of the lodes only a short distance from the lodes worked on by the old miners some 50 or 60 years since.

The objects of the present company are to fully explore the mine in depth by sinking the present deepest shaft, which is from 40 to 50 fms. below the deep adit, and to cross-cut the entire sett from north to south. For this purpose a 50-inch cylinder pumping-engine has been purchased on reasonable terms, and is being erected on the mine, and there are ample funds in hand not only to carry on all the necessary operations for the next six months, but also to pay for the engine and other plant. During this time it is fully expected that considerable quantities of tin will be raised and sold from the shallow workings already referred to. The lode recently cut is believed to be in entirely whole ground, and is, therefore, of great importance.

Attention is called to Capt. White's report of the mine, which will be found annexed.

This is in all respects a thoroughly sound property, possessing every element likely to conduce to great success at an early date, and, as such, it is confidently recommended to intending investors

and the public generally.

The present price of the shares is £3 to £3 10s.

Application for Shares (of which only a limited number are for

DEEP ADIT LEVEL SCALE 24 FMS TO LINCH.

Application for Shares (of which only a limited number are for sale) should be made at once to—

MR WILLIAM H. BUMPUS,

STOCK BROKER AND MINING SHARE DEALER,

44, THREADNEEDLE STREET, LONDON, E.C.

WHEAL BOYS

Wheal Peevor, Redruth, Dec. 15, 1880.—It is with great pleasure I beg to hand you the following report:—The mine is situated in the midst of a group of mines well known for their richness, and the chief portion of the lodes of which are running through the sett. In the first place there are Wheal Prussia and West Peevor, immediately adjoining on the west, which are now being vigorously worked. The lode on which operations are now being carried on in Wheal Prussia, and which has proved so productive up to the present, is the Wheal Boys great tin lode running through the centre of both mines. A pare of men have been engaged above the adit level in more and of a most congenial nature. This stuff is now underground ready to be drawn to surface. The very large workings is very large and of a most congenial nature. This stuff is now underground ready to be drawn to surface. The very large workings is very large and of a most congenial nature. This stuff is now underground ready to be drawn to surface. The very large workings at heavy large and of a most congenial nature. This stuff is now underground ready to be drawn to surface. The very large workings at heavy large and of a most congenial nature. This stuff is now underground ready to be drawn to surface. The very large workings and the load of surface, and the surface, and the nature of of its productiveness, at the lode, and been drawn to surface. The very large workings the lode of men have been engaged above the adit level in the adit level afford evident proof of its productiveness. At the many to surface, the adit level in the adit level in the previous workings have been engaged above the adit level in the adit level in the previous workings have been engaged above the adit level in the adit level in the previous working has been drawn to surface, the tons of good quality tinstuff has been broken from the lode, which

ground to be the same equally good results may be expected from Wheal Boys. Old Treskerby Mine is situated to the east, and immediately adjoining whose lodes are the Wheal Boys lodes. I understand Treskerby alone made returns of about £600,000, and being the same lodes I can see no reason why they should not be of equal productiveness in this prine. ductiveness in this mine.

ductiveness in this mine.

Wheal Peevor is immediately adjoining to the north, and the old Cardrew Mine to the south. The main lode of the latter being a parallel lode with the Wheal Boys lode, and underlying towards each other, a most important junction must necessarily take place at a comparatively shallow depth. The water charges here must of necessity be very light, but in order to meet all emergencies the foundation for an engine-house is being taken out and the building of same will be carried on with all second.

an engine-house is being taken out and the building of same will be carried on with all speed.

The mine can be worked very cheaply and developed for little cost, the ground generally throughout the district being of a soft nature for cross-cutting, &c., and considering the whole of the advantages in connection therewith, both at surface and underground, I can with the greatest confidence recommend this mine as one that will, in my opinion, be found largely productive. W T. WHITE

PROVINCIAL STOCK AND SHARE MARKETS

CORNISH MINE SHARE MARKET.—Messrs. ABBOTT and WICKETT, stock and share brokers, Redruth (Dec. 22), write:—There has been but little alteration in the market during the past week, and to-day there is not much inclination to sell at current rates. West Peevor, Pedn-an-drea, and South Frances shares readily find buyers. Closing rates anneal.—Blue Hills 24 to 4. Cher Brea. 98 to 99 Cook's Eticher. 104. Pedn-an-drea, and South Frances shares readily find buyers. Closing prices annexed:—Blue Hills, 3½ to 4; Carn Brea, 98 to 99; Cook's Kitchen, 10½ to 1; Dolcoath, 56 to 56½; East Pool, 55½ to 55½; Mellanear, 4½ to 5; New Cook's Kitchen, 6to 6½; North Busy, 2½ to 25½; Pedn-an-drea, 1½ to 1½; Pendarves United, 9½ to 10; Santa Gertrude, 175 to 180; South Condurrow, 10½ to 11; South Crofty, 10to 11; South Frances, 11 to 11½; Timrorft, 20 to 20½; West Basset, 14½ to 15; West Poldice, 3½ to 4; West Peevor, 16½ to 17; West Frances, 11 to 11½; West Tougus, 47 to 50; West Seton, 17 to 18; Wheal Agar, 6 to 6½; Wheal Basset, 5½ to 5½; Wheal Grenville, 10½ to 11; Wheal Kitty, 4 to 4½; Whael Peevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Prussia, 1½ to 2; Wheal Quevor, 27½ to 28½; Wheal Quevor, 27½ to 28½;

Tin, 90½. Steady market.

Mr. S. J. Davey, mine sharedealer, Rednuth (Dec. 22), writes:—Very little change has occurred in our market since last week, and there has not been much business done. At Wheal Peevor meeting, on Tuesday, a dividend of 20s, per share was declared. Market to day closes ifm. The following are to-day's prices:—Blue Hills, 3½ to 4; Carn Brea, 98 to 100; Cook's Kitchen, 10½ to 11½; Dolcoath, 56 to 55½; East Pool, 35¾ to 35½; Mellaner, 4¾ to 5; New Cook's Kitchen, 6 to 6½; North Busy, 23½ to 25; Pendarves United, 9 to 10; Penhalls, 1½ to 2; Pedn-an-drea, 1½ to 2; South Condurrow, 10½ to 11; South Croity, 10 to 10½; South Frances, 10½ to 11½; Tincroft, 20 to 20½; West Basset, 15 to 15½; West Poldice, 3½ to 4; West Tolgus, 47 to 49; West Scton, 17 to 19; Wheal Agar, 6 to 6½; Wheal Basset, 5 to 53½; Wheal Comford, 4 to 4½; Wheal Grenville, 10½ to 11; Wheal Jane, ½ to ½; Wheal Pervor, 27 to 28; Wheal Grenville, 10½ to 11; Wheal Jane, ½ to ½; Wheal Pervor, 27 to 28; Wheal Grenville, 10½; Wheal Peny, 4¾ to 4½.

Mr. J. H. REYNOLDS, stock and share broker, Redruth (Dec. 22), writes:—

2½; Wheal Uny, 4½ to 4½.

— Mr. J. H. Reynolds, stock and share broker, Redruth (Dec. 22), writes:—
During the week transactions have been limited, pending the holidays. At Wheal Peevor meeting, vesterday, a dividend of 1ℓ. per share was declared, and a good report presented to the adventurers. Subjoined are the closing quotations:—Blue Hills, 3½ to 4; Carn Brea, 98 to 99; Cook's Kitchen, 10½ to 11; Dolcoath, 56 to 56½; Esst Caradon, 1½ to 2; Esst Lovell, 4½ to 4½; Esst Pool, 3½ to 55¼; Gunnislake, 3½ to 4; Herodisfoot, ½ to 1; Levant, 4 to 6; Marke Valley, 1½ to 2; Mellancar, 4½ to 5; North Levant, 5 to 6; North Penstruthal, 1½ to 2; Est. North Herodisfoot, 10s. to 13s.; North Levant, 5 to 6; North Penstruthal, 1½ to 2; Penhan-drea, 1½ to 1½; Pendarves United, 9 to 10; Pheenix, 2½ to 2½; Penhalls, 1½ to 2; South Caradon, 60 to 65; South Condurrow, 10½ to 11½; Essuth Condurrow, 10½ to 11½; South Frances, 10½ to 11½; Timeroft, 19½ to 20; Trugo, 1½ to 1½; West Brasset, 1½ to 15; West Chiverton, 1½ to 1½; West Frances, 10½ to 11½; West Fridges, 50 to 5; Wheal Agan, 5 to 6¾; Wheal Basset, 5½ to 5½; Wheal Crebor, 4½ to 5; Wheal Comford, 4 to 4½; Wheal Grenoville, 10½ to 10½; Wheal Grenoville, 10½ to 10½ to 10½; Wheal Grenoville, 10½ to 10½ to 10½; Wheal Grenoville, 10½ to 10

Kitty, 4 to 4½; Wheal Peevor, 28 to 28½; Wheal Prussia, 1¾ to 2; Wheal Uny, 4¼ to 4½; Cornish Bank, 20.

— Mr. John Carter, mine sharedealer, Camborne (Dec. 22), writes:—Little change to notice has taken place in the share market this week. Prices have been firmly maintained, and, contrary to expectation, there has been no pressure to sell to close speculative accounts in our leading mines, and which is frequently the case at this season of the year. This augurs well for the course of prices in the new year. The tin market has a healthy appearance, and prices of both foreign and English keep firm. During the week fluctuations have taken place in South Frances, which at one time reached 11¾, buyers, but closs to-day at 11. Dolcoath shares declined to 55¾, but closs firm at 56¼. A large profit is expected to be shown at Carn Brea meeting on Thursday; these shares are firm at 98¼ to 100ℓ. Subjoined are the closing prices:—Blue Hills, 3¼ to 3¾; Carn Brea, 98 to 100ℓ. Subjoined are the closing prices:—Blue Hills, 3¼ to 3¾; Carn Brea, 98 to 100ℓ. Subjoined are the closing prices:—Blue Hills, 3¼ to 3½; Carn Brea, 98 to 100ℓ. Subjoined are the closing prices:—Blue Hills, 3¼ to 3½; Carn Brea, 98 to 100ℓ. Subjoined are the closing prices:—Blue Hills, 3¼ to 3½; Carn Brea, 98 to 100ℓ. Subjoined are the closing prices:—Blue Hills, 3¼ to 3½; Carn Brea, 98 to 100ℓ. Subjoined are the closing prices:—Blue Hills, 3½ to 3½; East Botallack, 13½ to 5; East Botallack, 13½ to 10ℓ. Subjoined are the closing the subjoined are 11½ to 11½; Sat Carn Brea, 98 to 100ℓ. Subjoined are the closing the subjoined are 11½ to 11½; Subjoined are the closing the subjoined are 11½ to 11½; Subjoined are the closing the subjoined are 11½ to 11½; Subjoined are the closing the subjoined are the subjoined are the subjoi

after the Christmas recess. At South Caradon Mine meeting, held yesterday, the accounts showed a balance of 82. 13s. 9d. profit on the three months' working. Subjoined are the closing prices:—Bedford United, 34 to 5%; Carn Brea, 97 to 98; Gunnislake (Clittera), 34 to 34%; Cook's Kitchen, 103½ to 11; Dolcoath, 56 to 57; Drake Walls, 13½ to 2; East Crobor, 34 to 1; East Herodsfoot, 35 to 36; Gawton United, 1 to 134; Glasgow Caradon, 13½ to 2; East Crobo, 35 to 36; Gawton United, 1 to 134; Marke Valley, 13½ to 2; Mount Carbis, 2 to 2½; New West Caradon, 13½ to 1½; Marke Valley, 13½ to 2; Mount Carbis, 2 to 2½; New West Caradon, 54 to 3½; Prince of Wales, 34 to 3½; South Cardadon, 55 to 57½; South Condurrow, 11 to 1134; South Crobor, 13½ to 13½; South Crofty, 10 to 10½; South Devon United, 13½ to 13½; South Frances, 10½ to 11; Tamar Silver-Lead, 13½ to 13½; Theroft, 13½ to 21; West Brasset, 14 to 14½; West Caradon, 13½ to 2; West Frances, 11 to 113; West Crebor, 3½ to 3½; Weal Crebor, 3½ to 3½; Weal Graville, 13½; West Chiverton, 1 to 13½; Weal Agar, 63½ to 5½; Wheal Gernville, 10 to 10½; Wheal Hony and Trelawny, 23½ to 23½; Wheal Kitty, 4 to 4½; Wheal Peevor, 23½ to 23½; Wheal Kitty, 4 to 4½; Wheal Fortewer, 13 to 13½; Wheal Frances, 10 to 13½; Wheal Frances, 10 to 13½; Wheal Foreville, 10 to 10½; Wheal Hony and Trelawny, 23½ to 23½; Wheal Kitty, 4 to 4½; Wheal Forevor, 27½ to 27½, x.d.; Wheal Frances, 10 sper H. R. and W. P. BAINES, sharebrokers,

MANCHESTER.-Messrs. Joseph R. and W. P. Baines, sharebrokers, Queen's Chambers, Market-street (Dec. 22), write:—The approach of the holidays curtails business in no small degree, and although very little inclination is apparent to enter to any extent on new operations

being neglected for some time past, as also Londons, Midlands, and North Easterns. There has been a recovery in Ohathams and their preference, the latter looking cheap as an investment, full dividend being expected this half. North British and Great Westerns are the only exceptions to the general rise, their quotations about 1 per cent. and ½ per cent. easier respectively, the traffic not being satisfactory. Canadians have gone dull, with the small amount of business in progress, although prices are firmer all round. The American market has been excited, and all descriptions exhibit an improvement. Atlantic and Great Western Mortgages decidedly stronger, and Oregon and California Frankfort Certificates have shown some animation, quoting 1 higher.

SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

shape was declared. Marks to-sky close grams. The following are to-sky's presers. Thus Hilly, 26 to 27 mers to 10 to 25 mers to 10 mers t

s. to 8s.; Colorado, 47s. 6d.; Devala Provident, 1s. to 3s.; Devala-Moyar, 48s. 9d.; Den Pedro, 14s.; English-Australian, 17s. 6d. to 20s.; Exchequer, 10s.; Eberardt, 42s. 9d.; Emma, 66s. 3d.; Frontino, 5½; Flagstaff, 30s.; Glenrock, 30s.; ndian Phcenix, 3s. 9d. prem.; La Plata, 41s. 3d.; New Gold Run, 5s. 6d.; lava de Jadraque, 20s.; Potosi, 12s. 6d. prem.; Port Phillip, 11s.; Rio Grande, 5s.; Rossa Grande, 3s. to 5s.; Rhodes Reef, 2s. 6d. prem.; Ruby, 6½; San edro, 12s. 6d. to 17s. 6d.; South-East Wynaad, 55s.; Tecoma, 5s. to 10s.; and lictoria (London), 8s. to 12s.

In shares of oil companies, Broxburn have advanced 7s. 6d. per share, and coung's Paraffin are also 2s. 6d. higher; the latter have been done at 13½ 11s. shares of miscallaments companies.

In shares of oil companies, shadows, the latter have been done at 13½ to 13½.

In shares of miscellaneous companies, business is quiet. Neuchatel Asphalte (pref) shares are in favour on prospects of a dividend. Droitwitch Salt, 17s. 6d. to 22s. 6d.; Earle's Shipbuilding, 12½ dis., Milner's Safe, 10; Zoedones, 30s. Prices of wagon companies shares are:—Bristol and South Wales, 6½; Birmingham, 12½; Gloucester, 85 to 87; Metropolitan, 60s., prem; Midland, 9½; Railway Carriage, 35s.; Railway Rolling Stock, 8; Swansea, 50s.; United States Rolling Stock, 18½ to 19.

Prices of chemical companies are:—Langdales, 57s. 6d. to 60s.; Lawe's, 5½ to 5½; Newsastle, 55s. to 60s.

LANGNESS COPPER MINE.—The ore from this mine is of such a high quality that it will require very little dressing, and should the ore cut well at the 40 the estimated return of 100 tons per month will be far below actual results. The mine now, to a practical miner, is as good as if the metal was actually in view; but, of course, the general public go by actual results only, which accounts for the shares still being obtainable at par. It should be explained that the estimated value of the lode at the 18—304, per fathom—is, for safety, hardly one-third of what it appears likely to turn out. It is a mere question of driving north at the 40 to catch the ore ground, to establish beyond doubt the value of this grand property.

north at the 40 to catch the ore ground, to establish beyond doubt the value of this grand property.

BENHAR COAL COMPANY (Limited).—A meeting of the committee representing the creditors and shareholders of this company and several of the directors was held on Thursday last. Nothing definite was arrived at, but the resolutions under consideration included (1) the appointment of provisional liquidators, but no date fixed for so doing; (2) that if there appeared any risk of any creditor obtaining a preference application should at once be made to the Court for the appointment of these liquidators; and (3) that there be a committee of advice consisting of three disagow and three Edinburgh shareholders, and three creditors to assist the liquidators. The general meeting of shareholders to consider these proposals is to be held on Dec. 39.

EDINBURGH. - Messrs. THOMAS MILLER and SONS, stock and share brokers, Princes-street (Dec. 22) write:—The demand for high-class preference and for guaranteed and debenture stocks continues. In preference and for guaranteed and debenture stocks continues. In railway ordinary stocks no very strong movement has been observable, although there have been the usual fluctuations. Insurance shares have maintained their prices. In banks, the only changes have been a rise of 5 in Clydeadles to 215, a rise of 5 in Commercial to 255, and a rise of 1 in National to 273. In mining shares, Benhars have been incessantly changing price; since Friday last there is a fall from 10s. 6d. to 8s. 6d. Canadian Copper were in some demand to-day, and rose from 34s. to 37s. A good deal has been done lately in Clyle Coal shares. A strong demand carried the price to 91s. 6d. on Saturday, but it has since gone back to 83s. 6d.

Meetings of Public Companies.

NEW QUEBRADA MINING COMPANY.

An ordinary general meeting of shareholders was held at the Cannon-street Hotel, on Thursday.

The Hon. T. C. BRUCE, M.P. (the Chairman), presiding.
Mr. N. G. BURCH (the secretary) read the notice calling the meeting, and the report and accounts were taken as read.

An ordinary general meeting of shareholders was held at the Cannon-street Hotel, on Thursday.

The Hotel of the Cannon-street Hotel, on Thursday.

The CHARLAN said Gentlemen, I have only to offer you a few remarks before moving the adoption of the report. The report itself, as is usually our practice, is pretty full, and I think gives a very complete statement of the position and progress of the company's works, and it does not leave very much for me to add, so I will not detain you long, but I will add one or two things which have occurred to me, which you would like to know, beyond what is printed in the report itself. In the first place you will observe that we have lawed in the report with the statement of the position and progress of the company's works, and it does not leave the remove the product of the position of the reason from the law of the product of the position of the reason from the law of the product of the position of the reason from the law of the product of the position of the reason from the product of th

ance of being a solid and real lode. (Hear, hear). We have directed a second level to be tirven in the same spot a little below the first one, so as to test the and direction of the lode. These are not completed, and we cannot speak positively till swe have the report; but the thing which is most interesting is that the Aroa lode, speaking generally, runs south and north of incident the Aroa lode, speaking generally, runs south and north of onth. Well, this new lode, which is about 500 yards from the present workings, and more than double the distance from Titlars, is partly in the line of the other two lodes, so that leads us to believe and to the strong impression that the other two lodes, so that leads us to believe and to the strong impression that the other two lodes, so that leads us to believe and to the strong impression that the other two lodes, so that leads us to believe and to the strong impression that the other two lodes, so that leads us to believe and to the strong impression that the other two lodes, so that leads us to be a strong the strong impression that the lot the strong the strong

Must be taken at a time, but the San Antonio would be pushed on afterwards.

A SHARRHOLDER: Is there any dividend this time?—The CHAIRMAN: No accounts and no dividend.

A SHARRHOLDER asked the Chairman whether he could give any idea as to what would be over towards a dividend?—The CHAIRMAN: I can only say that the produce is rather larger than last year, but we cannot exactly tell how it will turn out in the accounts. It depends entirely upon the next three months' sales, but there is no reason to suppose that we shall be in any worse position, and we hope to be in a better. (Hear, hear.)

The CHAIRMAN is reply to Mr. Ward, said the board had commenced paying off the debentures as they became due.

The resolution for the adoption of the report was then put and carried.

The CHAIRMAN moved that the election of Mr. Ormiston to a seat at the board be confirmed.

Mr. James Thompson seconded the resolution. He said that Mr. Ormiston was an able man, and a very just and fair man, and the board were very fortunate in being able to avail themselves of his visit to ask him to examine the property.—The resolution was put and carried.

On the motion of the CHAIRMAN, seconded by Mr. WILLIAMS, the retiring directors—Mr. N. Learoyd and Mr. James Anderson—were re-elected.

On the motion of SHARKHOLDER a cordial vote of thanks was passed to the Chairman and directors.

The CHAIRMAN acknowledged the compliment, and added—I have great pleasure in meeting you under these favourable circumstances, and I hope we shall have many happy meetings at which we can declare dividends. (Cheers.)

On the motion of the CHAIRMAN, seconded by Mr. N. LEAROYD, a vote of thanks was passed to Mr. Holman and the staff, and the meeting broke up.

CANADIAN COPPER AND SULPHUR COMPANY

The ordinary annual general meeting of shareholders was held at the Cannon-street Hotel, on Thursday,—Mr. J. W. Maclure in the chair.
Mr. W. G. WILLIAMS (the secretary) read the notice convening the meeting, and the directors' report and statement of accounts were

Mr. W. G. WILLIAMS (the secretary) read the notice convening the meeting, and the directors' report and statement of accounts were submitted.

The directors point out that in the profit and loss account amongst the items charged is 1384.148.104, for explorations at the mines, of the advantage of which, when completed, they are most sanguine, and 5074.0s. 3d., the damages and costs in the action which was brought against the company by a workman named Hall for an accident in 1876, and referred to in last year's report. Immediately after the extraordinary general meeting held last April, when a resolution was passed aanctioning the issue of debentures to the extent of 15,0004, the directors were able at once to place the whole amount amongst the shareholders in the company. Up to Sept. 30, 76304, was received on these debentures, the directors having arranged not to call up the full amount in some cases, so as to prevent an unnecessary charge for interest thereon until the whole of the money could be safely and profitably employed.

As soon as the necessary capital was provided instructions were sent to Capt. Bennetts to commence a vigorous exploration and working of some of the company's mines which had been favourably reported on. Weekly reports have been published in the Mining Journal for the information of the shareholders. As there would have been considerable difficulty in obtaining the necessary supplies of cord-wood to carry on smelting at the Capelton works during this winter, the directors accepted an offer from the Orford Nickel and Copper Company for the use of those works for a limited period, that company undertaking to smelt ores for the Canadian Copperand Sulphur Company at a fixed rate per ton. The contract commenced on Sept. 1, and the first result under it has been about 55 tons of copper regulus, which was forwarded for shipment to Liverpool on Nov. 20.

The directors have also arranged with the Orford Nickel and Copper Company, who have a mine adjoining the Hartford Mine, for a lease of the

us and hear our report—would be practically more of exploration than of results in the shape of dividend; and I am happy to tell you that so far as we have progressed we are thoroughly satisfied with the work which has been done. First of all, we have been very ably

assisted by our friends the Messrs. Taylor—(hear, hear)—who have advised us, we think very prudently indeed, and as we told you that we had no practical innowledge of mining ourselves, we felt the best thing we could do was to put of the high of

company. Numbers of shareholders who have recently joined this company are not aware of the fact that to the gentlemen now in office they are indebted for rescuing this company from the hands of the wreckers, therefore the less association we have with Glasgow the better for you. (Applause.) I see no mention of any remuneration to the board, but I shall be very happy to be the means of proposing it later on. (Applause.)

Mr. Blands of the company, for he (Mr. Bladon) believed there was really a good proposed of the company, for he (Mr. Bladon) believed there was really a good. About, he hoped the directors would not be present. With all due respect to Mr. About, he hoped the directors would not be present. With all due respect to Mr. W. About, he hoped the directors would not be present. With all due respect to Mr. W. About, he hoped the directors would not be present. With all due respect to Mr. W. About, he hoped the directors would not be present. With all due respect to Mr. W. About, and what Mr. About and Wr. Bladon have said shall may say this that Capt. Bennetts has been so precise and careful in girling us the earliest possible intimation of everything that is going on that we did not think it necessary to telegraph again to him, as he said "assy follows." Any hour we may have that information; and, as Mr. About suggested, that shall be communicated to the shareholders by special circular, and also to the papers. As to the office in Glasgow unfortunately, it is provided in the Memorandum of Association (which cannot be altered) that the registered office of the company "shall be situated in Scotland." I may just briefly refer to what Mr. About time Mr. Moore was secretary of the company that we he company and appoint Mr. Moore as cancever of the company that we have defined the papers. As to the office in Glasgow unfortunately, it is provided in the gentlemen in Glasgow on the about the shareholders, and register of the pudding

Mr. W. Abbott: Had not Mr. Adam Murray retired P—The OHAIRMAN: No, but he wished to.

Mr. W. Abbott: Are three directors enough P—The OHAIRMAN: We think so Mr. W. Abbott: Are three directors for the past year be fixed at 300 guineas, and that all consideration of future remuneration be left for subsequent meetings, because I have exalted views of what you may be able to do for us, and we may be able to do for you. (Applause.) Mr. Sanderson seconded the proposition, which was carried nem. dis.

The CHAIRMAN having acknowledged the vote in a few well-chosen words, Mr. RAIRMAN having acknowledged the vote in a few well-chosen words, Mr. RICHAED TATVOR said: With regard to the telegram, I do not attribute it to economy, but to the caution and prudence that we know always regulates the conduct of Captain Bennetts. (Hear, hear.) He was, I may say, brought up under my own eye until he was sent to Canada, and that I know is his character. You are aware that the St. Francis Mine and the Bolton Mine had been abandoned by the predecessors of the present directors. The description of the Bolton Mine shows to us very clearly that it is a mine which affords very great promise of being a good copper mine. The St. Francis Mine is also a copper mine, and his report Captain Bennetts describes that having resumed driving the adit level he had met with a small leader of copper ore—grey and erubescite—the same as we have at the Ookiep Mine of the Cape Copper Company, in the Cape of

tee in e teleement blders, e you ne re-(that assay nines, other t it is to the

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No,

Good Hope. Now he says in this telegram that in the adit we have rich silver ore. That may be grey copper ore containing a large alloy of silver; that is by no means an uncommon ore, and I am inclined to think that that is what it is. He has found ore that contains silver, but had not had it assayed, and therefore he waited to give some detailed information until he was able to do so—that is until the ore should have been assayed, and he could tell us the value.

is until the ore should have been assayed, in the decided addition of the company, and that his remuneration be 20 guineas.

Mr. W. Abbott, in seconding the motion, remarked that Mr. Baker had recently retired on a pension from the secretaryship of the Great Western Railway of Canada.

way of Canada.

The CHAIRMAN thought they could not put the audit in better hands. Mr. Baker had been for a long time interested in the company—he was, in fact, an original shareholder—and was, of course, a shareholder now.

The motion was carried nom. dis.

On the motion of Mr. W. Annorr, seconded by another shareholder, a cordial vote of thanks was passed to the Chairman and directors, and the meeting then clearly

WHEAL RUSSELL MINING COMPANY.

WHEAL RUSSELL MINING COMPANY.

A meeting of shareholders was held at Tavistock on Dec. 16,
Mr. SAMUEL LANGLEY (of Bristol) in the chair.

The PURSER read the notice convening the meeting, and the statement of accounts for the four months, showing a balance of 4281. 7s. 2d.

It was resolved to make a call of 1s. 6d. per share, which would not only be sufficient to pay off all existing liabilities, but with the aid of ore returns would enable them to pay the costs for the next four months, as the agents stated they saw their way clear to sell 250% worth of copper by the end of February.

The Chairman congratulated the company on their present improved position. They had effected an arrangement with the South Bedford Company, by which they had obtained a valuable portion of their sett, and they had procured from the Duke of Bedford [the promise of an enlarged sett, including the East Russell Mine, which formerly returned large quantities of rich ore, and from which frequent applications had been made to his Grace, but without avail. The Chairman further remarked that several of the points in the mine were looking much better, and altogether their prospects were more cheering than for some time past.

Messrs. 8. Lang, T. Hamilton, T. Stephens, E. Crocker, T. Grenfell, G. Prout, and H. Reynolds were re-elected the committee of management for the next four months.

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It was resolved to increase the salary of the consulting agent, Capt. Gifford, from 24. 2s. to 44. 4s. per month.

A cordial vote of thanks was given to the Chairman not only for his conduct. In presiding but for the warm interest he has taken in the general business of the company.

GREAT HOLWAY.—The annual meeting was held on Monday last, but immediately adjourned. The report presented was in every respect excellent.

respect excellent.

SOUTH CARADON.—At the meeting on Tuesday (Mr. Richard Hauke in the chair) the accounts showed a credit balance of 1666l. 2s. 11d. The profit on the three months working was 8l. 11s. 6d. Capt. John Holman reported that the mine continues to produce large quantities of rich quality ores. They have completed the sinking of the two shafts and are engaged in driving towards the lodes at deeper levels; but have not intersected them as they intimated at the last meeting they had hoped to do. They will continue to drive in this direction with all speed, and confidently believe they will meet with good results, which will greatly help them in keeping up their returns.

[For remainder of Meetings see this day's Supplement.]

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The mineral wealth of the State of Georgia has frequently been incidentally referred to, and now an interesting paper, contributed to the New York Mining Record by the Rev. W. P. Harrison, removes all doubt as to the resources of the State being worthy of development. An important interest in Georgia at the present time, with intimate relation to the developments of iron manufacture, is the making of fire-bricks. The nature of this article, the freight being an all-important item, requires a home supply if it can be obtained. There is an abundant supply of excellent fire-lay within is miles of Atlanta, Georgia. The clay lies in extensive beds near the surface, is quite free from iron, and in the neighbourhood is an abundant supply of quartz, necessary for mixing with the clay. At a cost not exceeding 825 per thousand an article can be made there equal to the best London bricks or any manufacture in this country. Persons la acquainted with the business can readily find a market now for a large supply, and the prospect enlarges constantly. This may not seem to possess very attractive features to capitalists, but this country will not long have an opportunity for repreaching the South for backwardness in manufactures. The energies of the Southern people are being directed to the development of their resources, and they will welcome any and all persons who sympathise with them in this cause. Near the city of Augusta, Georgia, but in the State of South Carolina, is an extensive deposit of Kaolin, or porcelain clay. It is of the finest quality known to mineralogists. The deposit is equal to any demand upon it for a hundred years. It has been shipped to Northern manufacturers for some time past, and the establishment of a manufactory at that point is only a question of a few years. There is a twell grown of the parties who purchase the material and have it shipped to the North. How much truth there may be in the statement Mr. Harrison did not know, but if terra alba is ever used for this purpose the Carolina clay woul

Asbestos, manganese, corundum, and many other valuable minerals exist in considerable quantities, but the gold deposits of Georgia are the most important sources of wealth to the States; upon this subject also it is necessary to speak guardedly. He has seen ore taken from the mine worth in its virgin state \$33,000 per ton; but this was a pocket which yielded only \$6000 before it was exhausted. Some parties have lately obtained \$3700 in gold with \$50 or \$60 expense. The gold interests of the State have been seriously injured by injudicious enterprise, which have even brought their real value into question. The principal deposits of gold are in quartz rock distributed irregularly, but with a singular uniformity at the same time. The amount of gold varies from 40 c. in the ton to \$30,000. The chief external for the mill is a quartz running from 80 c. to \$75 or \$100 to ant of gold varies from 40 c. in the ton to \$30,000. amount of gold varies from for the mill is a quartz running from 80 c. to \$75 or \$100 to the leather will not be dissolved the ton. These veins of gold bearing quartz vary in size from 4 in. leather is likely to be subjected.

to 14 ft. They run in all directions, the general bearing from northeast to south-west. The gold is sometimes visible to the eye, interspersed throughout the rock in grains, nodules, and lumps. This, of course, is the most valuable ore, and is comparatively scarce. The large mass of ore has no visible gold, but in minute quantities the precious metal exists, and yields readily to treatment. He has said that the quartz veins were remarkable for uniformity; by this he means that there is no barren quartz in these veins. However little every ton of ore yields some gold, and it is possible in a very short time to learn precisely what amount of gold may be expected from a given amount of ore.

every ton of ore yields some gold, and it is possible in a very short time to learn precisely what amount of gold may be expected from a given amount of ore.

After a careful examination of the section known as the gold region of Georgia he has no hesitation in expressing the opinion that there are at least \$500,000,000 of gold within 300 ft of the surface of the earth. In a radius of 20 miles from Dahlonega as the centre he thinks \$100,000,000 may be extracted in the same distance from the surface. The extraction of gold is reduced in this region to the minimum of cost. Taking the quartz out of the earth, removing it to the mill, crushing it, amalgamating the gold with the quicksilver, and extracting the gold, all these operations are performed at a cost not exceeding 30 c. per ton of ore. He knows that this statement will excite surprise. It is well calculated to do so; but having seen the books of the Hand Mining Company in Dahlonega, Georgia, he can positively affirm that the cost of raising, crushing, and washing a ton of ore is not more than 30 c. Labour is cheap, provisions plentiful, water-power abundant, and the peculiar conformation of the country furnishes a head of 256 ft. of water available for removing the debris from hillsides, thus exposing the veins of ore. There is a small river, which is carried 22 miles by means partly of a canal and partly by an iron pipe, thus accumulating a hydraulic power competent to wash down immense masses of earth. This water-power is, he believes, leased by its owners on very moderate terms, and forms a valuable factor in this mining region. He maintains there is here an element of certainty frequently absent elsewhere. Given a number of tons of ore the proprietor can tell what amount of gold he will obtain; he can tell precisely what the cost of its extraction will be, and calculate his profits with as much certainty as he can look for a dividend from any investment in real estate, or in stocks or rail-road corporations. road corporations.

FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

Mild rainy weather which has prevailed in Belgium has not been very favourable to the Belgium coal trade. There has, nevertheless, been no great feebleness in the market; prices have been fixed for a time, and considerable orders are being worked out, so that a change cannot well take place all at once. In France quotations for coal have been rather weaker, the consumption being reduced by exceptionally mild weather. The imports of coal at Havre in the first nine months of this year amounted to 343,332 tons, against 304,489 tons in the corresponding period of 1879.

Pig has been supported with tolerable firmness in Belgium. A Luxembourg syndicate has advanced its rates 1s. 8d. per ton. Luxembourg pig delivered at Charleroi cannot now be obtained for less than 2l. per ton. English casting delivered at Antwerp has made about 2l. 3s. per ton, while pig for hard iron has brought 2l. 4s. per ton. Ordiuary plates are worth nominally 6l. 16s. per tou in Belgium, and some works are still selling them at that price, but they might certainly be obtained at 6l. 12s. per ton, and even at 6l. 8s. per ton. Tin-plates are maintained at 10l. per ton, but some works which have not too much to do would accept 9l. 12s., and even 9l. 8s. per ton. The Angleur Steelworks Company have just concluded a contract for 3186 tons of steel rails with the General Secondary Railways Company. The Belgian construction establishments are pretty well off for orders, and can afford to wait for the orders of the State. The Asturian Railway Company has ordered 58 turn-tables in Belgium; this order has been divided between the Sclessin Company and the International Company (Rohn). The launch of the John Cockerill Company's steamer, the Archduke Rodolph, passed off satisfactorily.

The rise recently noted in iron at Paris has become more decided. The requirements of consumption are considerable and can scarcely be satisfied all at once. The existence of Belgian competition must not be forgotten, however, when any attemp

be satisfied all at once. The existence of Belgian competition must not be forgotten, however, when any attempt is made to push prices up still further. Contracts have been let for 20,000 tons of steel rails for the French State Railways. The lowest tenders were those of the St. Chamond Forges Company, 101. 10s. per ton at Beillant, and 101. 6s. 8d. per ton at Aix; the Creusot Forges Company and the Terrenoire Company, 91. 16s. per ton at Joué; the Châtillon and Commentry Forges Company, 91. 8s. per ton at Brou; and the Firminy Company, 92. 19s. 2d. per ton at Elbent. The Paris, Lyons, and Mediterranean Railway Company has just ordered 12,000 trucks to meet the growing requirements of its traffic. When this company has received all the new plant which it has ordered it will possess 110,000 trucks and 2030 locomotives! No fewer than 130 new locomotives have just been ordered by the company to be delivered by the close of next summer. The imports of iron minerals into France in the first 10 months of this year amounted to 981,430 tons. To this total Algeria contributed 261,500 tons; Belgium, 233,808 tons; and Spain, 280,705 tons.

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The general condition of the German iron trade has not varied, but a favourable change will, it is expected, be shortly witnessed. The blast-furnaces appear to dispose of their products tolerably freely, but orders are not over abundant for rolled iron. Bars remain at about former rates; plates are rather firmer. It appears that 58,611 tons of steel rails were ordered for German railways in 1879. The Oels-Gnesener Railway Company has ordered 8000 tons 1879. The Oels-Gnesener Railway Company has ordered 8000 tons of steel rails, at 8l. per ton. 1879.

EXTENDED APPLICATION OF CHROME ORE.

THE MINERAL TANNING PROCESS.

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For some short time past the Eglington Chemical Company of Glasgow have been introducing an excellent quality of leather tanned by Dr. Heinzerling's process, and from the testimonials received the article appears to give general satisfaction. The process has been in use at the tannery of Messrs. Hosch and Vomhof, of Biedenkopf, for over two years, and they state that their experience of the chrome-tanned leather enables them to say that it is produced ready for the market within four or five weeks; it is tanned at much less cost; it has several properties which render it superior to barktanned leather, the upper leather being more elastic even after having been wet, much tougher, and more durable; it is closer and finer in the grain than bark-tanned leather; and that the weight is equal to that of bark-tanned leather. Altogether the new chrome-tanned leather must a valuable material to consumers as well as manufacturers.

There is no doubt as to the existence of diamonds in the State of Georgia. Several have been found in Hall County. Near Gainesville there is an extensive deposits of itacolumite, or flexible sandstone, or, to be accurate, a taminated granular or quartz rock, flexible in thin slabs. This is the formation which yields the diamond, and its existence proves the presence of the precious stone. Pseudomorphs in quartz are plentiful, and the expenditure of a little labour and capital under competent supervision may result in valuable discoveries.

Asbestos, manganese, corundum, and many other valuable exist in considerable grantless. But this is careful analyses to ascertain the comparative strength and unsolubility of chromate-tanned and best bark-tanned leather, and states that he has made a careful analysis of six samples of chrome-tanned leather, labelled respectively "foreign bend," "English bend," "hide butts," "strap butts," "buffalo hide," and "calf skin," for the purpose of ascertaining the total quantity of chromium which they contain, and the amount which is extracted by the action of water under different circumstances, and the results were decidedly in favour of the chrome-tanned. The quantity of bichromate of potash which he was able to dissolve out of the samples of chrome-tanned leather, even by steeping in water for a week, is very minute, but even this quantity, small as it is, will probably become less by the reducing action of the organic matter on the chromic acid. In any case he is of opinion that the remaining chromium compound in the leather will not be dissolved out by any treatment to which the the leather will not be dissolved out by any treatment to which the

The rapidity of the mineral process of tanning is marvellous. The longest period claimed for the process of tanning by this method is only some three or four weeks, which, when compared with the time necessary for bark tanning methods, seems something extraordinary. No doubt we have the rapid tanning processes of the United States with the bark of the hemlock tree—a species of fir—which produces leather now well known in the British market, but not in less than from four to six months. The operations of chrome tanning seem so simple and inexpensive as well as rapid, that there is little doubt, if successful, it will create a revolution in the leather trade. It is asserted on behalf of the chrome-tanned article that it is superior in many respects to bark tannage. This need not be conceded till larger experience has been had of the new article, but there is reason to believe that it will well serve many useful purposes, although it may not put the ancient tannages out of the field. The energy which has been displayed in the matter by Mr. W. J. A, Donald, the manager of the Eglinton Company, cannot be too highly commended, and it is not doubted that the result will be equally gratifying to the producers of chrome ore and bichromate of potash, as well as to all interested in securing a cheap supply of leather.

THE GOLD FIELDS OF CANADA.

THE GOLD FIELDS OF CANADA.

There seems to be a great probability that the Dominion will obtain a share of the British capital at present available for the development of gold mines, inasmuch as important discoveries are announced in various districts. A fine bar of gold from the Yarmouth Greenpot Mine has been exhibited by Mr. Henderson, the secretary of the company. It weighs 42 ozs.—4 ozs. less than the last specimen from that mine exhibited here, but is much purer, and is worth about \$800. The company intend shortly putting in machinery that will crush 15 tons per day instead of 3 tons, as at present. This can be done at but trifling cost, and with but few additional hands. The prospects of this mine are said to be excellent.

Work at the Duncan Mine, Thunder Bay, which is worked by a Boston Company, is, according to the North Shore Miner, progressing rapidly, and we are looking for a favourable report of the workings of the drill. The vein in the bottom of the shaft is rapidly improving. The drill has not yet reached the vein below the sinking, but is nearly down to a point level with it. Everyone is on the qui vive for a rich strike. If indications are any guide we shall have another bonanza to report soon. Mr. Church and his party are stated to have been very successful in the prospecting expedition. He brings back about \(\frac{1}{2} \) ton of excellent gold-bearing quaitz, and is more than ever assured of the value of his discovery. A longer account of this new and valuable gold discovery is promised a week hence.

CHEMICAL COAL.—The essential feature of the new chemical coal invented by Mr. Jules Lefranc, of Paris, lies especially in the employment for its preparation and in its composition, of the carbonates in general. and more particularly of carbonate of soda or of nitrate of soda or nitrate of potash. In the process of manufacture he grinds 100 lbs. of charcoal in the shape of charcoal dross and cinders, and mixes therewith about 80 lbs. of liquid pitch or tar, and about 15 lbs. of carbonate of soda dissolved in about 15 pints of water. He thus obtains a pasty mixture, which he moulds according to the dimensions of the blocks to be made. The blocks are then dried, and he finally submits them to carbonisation, the effect of which is to expel the gases, and at the same time to harden the blocks, which renders them more adapted for use. The carbonate of soda may be replaced by carbonate of potassa or chlorate of soda, or nitrate of soda, or nitrate of potassa. During the carbonisation the nitrogen is disengaged, the oxygen combines with the carbon, and the carbonic acid produced unites with the soda and forms the required carbonate of soda. In the same way carbonate of potassa may be produced by taking chlorate of potassa as an ingredient or nitrate of soda. Other carbonates may be employed in like manner.

The Engineers Club of Philadelphia.—This club, which

acid produced unites with the soda and forms the required carbonate of soda. In the same way carbonate of potassa may be produced by taking chlorate of potassa as an ingredient or nitrate of soda. Other carbonates may be employed in like manner.

THE ENGINEERS CLUB OF PHILADELPHIA.—This club, which promises to enjoy a long career of usefulness, is now considered firmly established. It has just commenced the issue of its second volume of Transactions, and the critical period of demonstrating the utility of the society and establishing the fact that it is equal to the requirements has passed, and the growing value of the contributions to its proceedings is evidence of an increasing interest. The club has commenced to take action in important matters, and is gaining recognition not alone in its native city, but beyond it is fast making friends. The first number of the new volume city, but beyond it is fast making friends. The first number of the new volume ready before the club display considerable merit.

AMERICAN MINES AND ENGLISH CAPITALISTS.—Some interesting observations upon Anglo-American concerns are made in the circular of Mr. J. J. West, of Chicago, and their reproduction may prove advantageous to British capitalists. He states that with an occasional exception, English capital invested in America has not paid. Excessive capitalisation, mines stocked for hundreds of thousands of pounds, want of due oversight an proper economy in working and managerial expenses, incompetent or dishonest management have, by far, more often caused loss of money to English and American investors than a failure or an advantage of the control of

HOLLOWAY'S OINTMENT AND PILLS.—Sudden changes of temperature sorely try all persons prone to rheumatism, sciatica, the doloreux, and many similar maladies scarcely less painful, though of shorter duration. On the first attack of stiffness or suffering in any muscle, joint, or nerve recourse should immediately be had to fomenting the seat of disease with hot brine, and rubbing in this remarable ointment, which will assuage the uneasiness of the part, subdue inflammation, and reduce the swelling. The pills, simultaneously taken, will rectify the constitutional disturbances, and renew the strength. No remedy heretofore discovered has proved so effective as the ointment and pills for removing gootty, rheumatic, and scroflulous attacks, which afflict all ages, and are commonly called hereditary.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERLLYN.—John Roberts, Dec. 21: There are still very thick joints of lead and blende in the valley cross-cut, but no particular change in the ground. Set to six men, at 122, per fm. The winze at 3.0, 2 is looking very well for blende, and and blende in the valley cross-cut is to look as from in my opinion as ever that we shall get a good course of lead under this blende, and the reason that we have not found it in the No. 3 cross-cut is the lode has changed its underlie. There is a lode at No. 3 underlying in an opposite direction to this, and letting out a large stream of water, and in the No. 3 cross-cut we should have about 4 ms. more to drive to cut it, but as the air is getting very bad I have put these men for the time being to assist the men in the winze, to lorse it down as soon as seen possible to prove this point. Set at 94, 10s. per fm. The No. 2 end is now in a very hard knot of ground, but is producing good saving work for the dressing floors. I think we are now entering into the course of blende in the blende shalt from surface which appears now to be a separate shoot or course to that in the winze. Set to six men, at 64, for 1 fm.

ASSHETON.—J. Garland, Dec. 22: Steady progress is being made in driving the 69, east of boundary shalt; the lode has not been taken down for the month, but where last cut into it contained stones of lead ore and blende. The ground by the side of the lode is a stiff slate.

BEDFORD UNITED.—R. Goldsworthy, Dec. 22: McCallan's Shaft: The Bridge lode still maintains its size and promising character, producing good stones of black and grey copper ore: a fine looking lode.—North Lode: There is no change to notice since my last report. Friday, the 24th inst., being setting day, a full report shall be sent next week. In the first level the lode is 2 ft. 6 in. wide, preducing good stones of thin, It is improving as we advance west, is not hange to notice since my last report. Finday, the close is 2 ft. 6 in. wide, preducing good stones of the wall is a few feet

and which will, there is every reason to believe, be found of greater strength as depth is gained; and with this in view I keep both places going, as we know not which for certain will strike it first. The frost has stopped us dressing this week, so I have put the dressers to assist in raising ore in the 17 east until use have.

BWLCH UNITED.—N. Bray, Dec. 22: The lode in the 100 driving east is still the full width of the end, and principally composed of clay-slate, the only mineral being a small mixture of blende. The driving on the slide at the 50 is making good progress, and, as I reported last week, continues to head more easterly, and carries strings of lead ore, and I am hopeful to find the lode soon making off in its project direction. The stopes are yielding from 10 to 12 cwts. of lead ore per airhom. We have got up 8 fms. above the 30 towards the old stopes, and owing to the great width of the workings and the loose sides, further progress is difficult and dangerous, and it will be advisable either to sink from surface or put up a rise in the firm ground adjoining the eastern end of the stope. The latter plant I think preferable.

CAMBRIAN.—Lyle Glauville, Dec. 22: Esgair-ffraith, Fastern Shaft: The lode in the shaft sinking below 108 yard level continues to yield 3 cwt. of copper ore per yard. The lode in the 108 yard level driving east will now only produce 10 cwts. of lead and copper ores per yard. All other points remain just the same as when last reported on. There is about 25 tons of copper ore on surface towards our next sampling.

CARNARYON COPPER.—John Roberts, Dec. 21: In the 90 end we have driven in the last month a little over 2 fms. The ground has very much changed for the better, being more congenial for copper. We are driving on the hanging side of the lode for the sake of exhibiting the driving, leaving all the lode to stand. There are good patches of copper on the face of the lode, and may open productive and profitable ground when cut through. There is another open productive and pro

ing out very satisfactority, and yielding a large quantity of ore. The pitch over the midsay is without alteration. The pitch under No. 2 adit continues to look well, and is extending eastward in good ore. The tributers are working well, and will make good wages.

DENBIGHSHIRE CONSOLIDATED.—A. Francis, R. Prince, Dec. 23; Our last report stated the lead in No. 2 rise, in the 112 east, main lode, was 12 inches wide; I am glad to say the rib has increased, and is now nearly 1 yard in width, composed of perfectly solid ore, and a finer deposit has never before been seen in the mine. It should yield very large returns. When writing our last report for publication we stated that in driving west on the lode out of the north cross-cut, in the 112 yard level, we were entering more congenial ground, and we ventured to express our belief that with this favourable change there would soon be some good news to send you. Our expectations have been to a certain extent realised, for we believe we have cut into another course of ore, but at present it is too soon to estimate the value of the discovery, but should it turn out a strong run of ore its importance may be gathered from the fact that it is in virgin ground, with a back of about 100 yards; the ore-bearing part of the lode is 6 in. wide. We are very busy on the washing-floors.

D'ERESBY CONSOLS.—John Roberts, Wm. Sandoe, Dec. 21: The end driving cast of Sutton's siart has much improved since last week. There is now a tolerable good branch, 4 in. wide, for the height of the end; let to four men at 104. 10s. for 2 fms. The western end is poor, but the lode is 2 ft. wide, with a branch of carbonate of lime on the footwall; let to two men at 24. 10s.

D'ERESBY MOUNTAIN.—John Roberts, Wm. Sandoe, Dec. 21: The stopes at No. 5, on the whole, are very much of the same value as they were last week; some parts are not quite so good, and others are better. The cross-cut at No. 6 has very much improved in appearance. The clay-slate has nearly disappeared, leaving scarcely anything

EAST CARADON.—James Kellow, Dec. 22: The winze below the 150 on the caunter lode during the past month was sunk 2 ft. 6 in.; the lode is 2 ft. wide, composed of peach, quartz, and mundic, with a little copper ore intermixed; set 1 fm. stent, by nine men, at 40L per fathoin. The winze sinking below the 130 cast on this lode we have been obliged to suspend owing to the increase of water. To drive the main cross-cut south at this level, 1 fm. stent, by four men, at 17L 10s.; it measured 1 fm. 0 ft. 6 in. To drive the 90 cast on Fawcett's lode, 1 fm. stent, by six men; it measured 1 fm. 3 ft.; the lode is 15 ins. wide, producing some good stones of ore. To drive the 70 weat on this lode, 2 fms. stent, by six men, at 7L, it was driven 4 fms.; the lode is 1½ ft. wide, composed of quartz, mundic, and prian, with a little ore intermixed, and of an encouraging character. The tribute pitches are without change. We have a small parcel of good quality copper ore for asle at to-morrow's ticketing.

EAST DEVON CONSOLS.—J. Browning, Dec. 21: The work here is going on most satisfactorily. I expect our masons will get the work up, and be ready to fix the woodwork for slating, &c., next week. There is no material alteration in the underground department to notice this week. The lode in the present driving presents a strong masterly appearance, such as cannot fail to produce large quantities of ore as we gain in depth. I think I before stated that the richest stuff was to be found in the bottom of the level. Such has been the case up to the present time. This fact gives clear evidence that large courses of ore will be met with underneath.

EAST HERODBFOOT.—T. H. Bennett, Dec. 22: The men are proceeding with the lobby and adit as fast as circumstances will admit. Progress is rather retarded by the inclement weather; nevertheless f may say it is progressing satisfactorily. I am most anxious to press forward undereneath the two pits saink from surface on the back of the lode in the side of the hill. In the first of those pits we hav

us south, through which this lode passes, it may now be seen from 2½ to 3 ft. wide, working size, with a leader of silver-lead ore about 6 in. wide of excellent quality. Lead ore is also interspersed throughout the other portion of the lode. I am well pleased to find such a lode here, as to my mind it speaks loudly and well for the future of the mine; such a defined lode, entering into a hill, and descending as well, upwards of 240 ft. high above the adit, and entering into a stratification which has been proved (being the same) in the adjoining mine congenial for yielding mineral, is sufficient to justify a thorough miner-like development of the property. I may say I reckon from the stope to the cross-course measures about 15 fms. I believe it is to the south of the cross-course in the Herodsfoot Mine that it yielded its profits, and I have a firm conviction that any impartial observer in looking at the position of both properties, the size of the lode generally, as well as facilities for working, and being adjoining properties in the same basin of killas in the same cross-courses, would unhesitatingly conclude that we have equally as good chance of success in East Herodsfoot as the fortunate shareholders of Herodsfoot had in their mine.

ties, the size of the lode generally, as well as inclities for working, and being adjoining properties in the same bash of killas in the same cross-courses, would unhesitatingly conclude that we have equally as good chance of success in East Herodsfoot as the fortunate shareholders of Herodsfoot had in their mine.

EAST LONG RAKE.—Wm. Vincent, Dec. 22: I have finished clearing and winding stuff from the 50 fm. level south cross-cut, and have started six men to drive the end towards the Gin lode. I calculate on cutting the lode in 5 fms, and judging by the richness of the lode in the shallow levels we are certain of making a good discovery. I shall push on this end with all speed, so as to get the lode as early as possible. I have six men enlarging the 50, east of cross-cut, on middle lode; this level has been driven very small, we are now making it large enough for tramroad; there are about 15 fathoms to enlarge before commencing to drive this end east towards Wagstaffilode; from this is fathoms the late owners have taken hundreds of tons of lead, but I believe the lode will be found richer eastward near the junction with Wagstaff lode. The tributers are rising in the roof of the 50 east, and are breaking good stuff. We have already a nice pile of lead on the surface, and the more I see of your mine the more I am convinced it is one of the best in this neighbourhood.

EAST ROMAN GRAYELS.—A. Waters, Dec. 22: The boundary engine-shaft is now divided and cased to the 103, or bottom level, with bucket-lift fixed there, everything connected with the pumping and winding beling in good working order. The cross-cut towards the lode will in future be pushed on, without interruption, by six men. The 37 south continues in a hard sparry lode 3 to 4 ft. in width, but without ore to value. The men have nearly completed the winze-plat, fixing of penthouse, &c., in the 56 south, and will next week start to sink a winze about 19 fms. behind the forebreast, in a lode, or by the side of a lode, worth 2 to 3 tons per fathom. The s

worth 25c, per tathom. The part or note curried in the stope in bottom of the cross-out, is fit, whice, and yielding 2 tons of caresical mundic and ore per fathom. The lode in the stope in bottom of the side of aresical mundic and ore per fathom. The lode in the stope in bottom of the side improved, and worth 40c, per fathom. The new aresine works are proceeding in the provention of the side of o

course. The engine-shaft sinking below the deep adit level is progressing very satisfactorily, the lode in which continues to produce a little saving work, and is of great promise.

KILLIFRETH.—John Michell, Dec. 22: Hawke's, or the flat-rod, shaft is sunk 4 fms. 2 ft. below the 10, in a beautiful stratum of killas; sinking by six men and three boys, at 132, per fathom. In the 10, driving south of this shaft, we have met with several branches, and from all appearance we are very near the lode, as there is a large stream of water issuing from the end. We have not intersected west of new shaft, is 2 ft. wide, looking very promising for an early improvement. In the shallowadit, driving west of this shaft, the lode is producing good stones of tin.—Old Sump: The 40, driving west of this shaft, the lode is producing good stones of tin.—Old Sump: The 40, driving east, is suspended for the present.

LADY ASHBURTON.—James Willcocks, Dec. 21: The lode in the 130 end east has very much improved lately in appearance, producing in now advanced west of the engine-shaft 18½ fms., is 4 ft. wide, composed of congenial friable quartz, arsenical and sulphuric mundic, the mentioned in my last report is 6 in. wide in the bottom of the level, producing silver and lead, spots of rich yellow copper, with sulphuric mundic. Mr. Jenkins has made an assay to day of the stuff broken from this leader, which has produced 107 css. 3 dwts. 16 grs. of silver to the ten of ore; this shows what we may expect to see very soon, and should have seen before now had the very late of the engine and pilwork are working well.

LADYWELL.—Arthur Waters, Dec. 22: We have suspended the drivage north of new shaft on main lode. We are getting nice lumps of galena and pilces of carbonste of lead and below the lift. The lode in the 110 cents of copper ore per fathom. No. 1, west of shaft, is worth 7 cwts. of lead and 5 cwts. of copper ore per fathom. No. 2, 6 cwts. of lead and 5 cwts. of lead ore per fathom: No. 2, 8 cwts. of lead ore per fathom: No. 2, 6 cwts.

ward towards the No. 3 shaft with fair speed. The ground is rather hard for Ladywell, but there are indications of a change for the better, and should they be true a wider and better lode may be expected.

LLANDEGIA.—H. Hotchkiss, Dec. 22: The lead ore in the north lode east is now looking as good as at any previous time, and following down under the shale; it is about 4 ft. in length, and near the shale is 6 in. wide, solid. There is no important change in any other part of the mine.

MELLANEAR (Copper).—John Gilbert, Dec. 22: The lode in the 30, driving west of cross-out, west of Gundry's shaft, on the south part, is 2 ft. wide, and producing ½ ton of copper ore per fathom. The lode in the 40, west of shaft, driving on the south-east part, is 2½ ft. wide, and producing ½ ton of ore per fathom. The rise in the back of this level is producing 2½ tons of ore per fathom. The rise in the back of this level is producing 2½ tons of ore per fathom. The lode in the 50, west of shaft, driving on the south-east part, is 4 ft. wide, and producing 3½ tons of ore per fathom. The winze in the bottom of this level, west of the cross-cut, is producing 6 tons of ore per fathom. The bottom of this level, west of the cross-cut, is producing 6 tons of ore per fathom and blende, and some good stones of lead—a very improving lode. The winze in the bottom of this level, on the south-east part of the lode, is producing ½ ton of ore per fathom. The rise in the bottom of this level, on or ore per fathom; we have commenced a winze in the bottom of this level, on the south-east part of the lode, is producing 3 tons of ore per fathom. The lode in the 70, west of shaft, indicated the fathor of the lode, is producing 3 tons of ore per fathom. The lode in the 70, west of shaft, indicated the fathor of the lode, is producing 3 tons of ore per fathom. The lode in the 70, west of shaft, is 7 ft. wide, and producing 1 ton of copper ore or the fathor it is level, well with the ground continues easy for driving, and congenial for copper ore. The l

eutting into the lode soon. Our carts are busy carting down another cargo of bluestone.

MOUNT CARBIS.—George Johns, Dec. 22: The tin lode in the 27 east is without change from last report, and is worth 50%, per fathom. The great lode in the deep adit level produces good stones of tin. In this adit south we have come upon a copper lode, which produces a beautiful gossan, and stones of rich black and yellow copper ores; a very pretty lode indeed. We can start to drive on it here about 13 fms. from surface.

NANTY-CRIA.—Jas. G. Green, Dec. 21: There is every reason to be satisfied with the appearance of the mine, owing to the fine discovery in the No. 2 south of adit. Large sums of money have been paid scores of times for a prospect not to be compared with it. The value at present is estimated at 4 tons first quality blende per cubic fathom. We are leaving along the sole of the drivage No. 2 level a splendid course of blende, and there is no doubt in my mind that we can find the same at a deeper level as soon as the mine is in fork at the bottom. As soon as we have room I shall commence a sump to prove the ore in depth. If it holds good we can attack it from one of the deep levels already driven.

NEW KITTY.—W. Vivian. Dec. 22: There is no change to notice in the mine

monto be compared with its. The Value as present is estimated as 4 tons trays consists benede per cubic station. We can lind the same at a experience, and there is no doubt in my mind that we can find the same at a experience, and there is no doubt in my mind that we can find the same at a experience of the construction of the deep levels already where the construction of the deep levels already driven.

As soon as we have room I shall commence a sump to prove the ore in depth. If it holds good we can attack it from one of the deep levels already driven.

NEW KITTX.—W. Vivian, Dec. 22: There is no change to notice in the mine since last week. The masons are not getting on with the engine-house as fast as I could wish, owing to the short days and wet weather.

NEW WEST CARADON.—N. Richards, Dec. 22: The ground in the 38 cross-cut, south of Hailett's shaft, is considerably eased since our last setting, consequently the men are making greater progress. There is a precty white granite all over the end. The lode in the winze sinking below the 55 is still very large, which is the consequence of the end. The lode in the winze sinking below the 51 is still very large, which is the consequence of the end. The lode in the winze sinking below the 51 is still very large, which is the consequence of the end. The lode in the winze sinking below this level corrected and the cross-teal one being driven south of Hailett's shaft at the 38 fm. level before this ground can be worked to advantage. We shall, however, be opening out on two branches as soon as we get the places clear.

NORTH LAXEY SYNDICATE.—R. Rowe, Dec. 21: The cross-cut driving west from the 60 is now in 15 fms. 2 ft. The ground is not so twisted and hard as it has hitherto been, and I, therefore, look for better progress in driving to the object we have in view. The stope in the roof of the 50, worth about 1 to not lead per fathom, and being in whole ground going sow the short and any driving west for the six producing some seven ground in the 50 case of the const

shalt, is getting more settled, and producing good stones of ore. We have no change at any other place to notice. Saturday next being the usual time for settling, but Christmas falling on that day, we shall let the bargains on the following Monday.

PENHALLS.—S. Bennetts, R. Harris, Dec. 13: The lode in the 30 west end, from the Blue Hills Mine, is at present small and of low quality tin stuff. In the 70 cast it is also small. In the 60 cast it is worth 64. per fm. In the 55 cast the lode is 3 ft. wide, of low quality tin stuff. The 50 west is worth 44. per fm., and the 45 west, 44.

POLROSE.—W. Bennett, Dec. 22: The shaftmen are engaged cutting ground for bearers and cisterns, and with good speed this will be finished by the end of this week. The Margaret lode in the 50 west is yielding a little more tin, and we hope soon to be able to report a further improvement. There is no change in either of the cross-cuts since last report.

ROMAN GRAVELS.—Arthur Waters, Dec. 22: The 125, north of new engine-shaft, is in a wide sparry lode, but does not contain any ore to value. The 125 south is opening out a lode 6 ft, wide, with a rib/of lead ore 2 in. wide on the footwall, and stones of ore in the middle of the end. The 110 north is now made good, and rails laid to within 16 fms. of the fiat-rod shaft, and we shall commence new stopes in the end of the mine the first week in the New Year. The 110 south is in a lode 2 to 3 ft. wide, composed of spar and ore. We purpose driving a cross-cut here soon to prove the hanging-wall portion of the lode, which we think will prove to be the main division of the Roman Gravels voin. The three stopes in this level, north of shaft, are worth together 4 tons per fm. The 55, south on the footwall portion, shows a lode 3 ft. wide, composed of stones of ore, but of little value. We are cutting into the hanging-side of the level here, and can see a strong lode before us. At a corresponding point to this we cut through nearly 3 fms. of veinstuff in the 80, and found the main lead-producing

level; the lode is worth 1 ton of lead ore per fathom. The tributes are producing fair average ore stuff. The machinery is in good order, and working

BOUTH PENSTRUTHAL.—S. Davey, Dec. 21: We are progressing satisfac rily with the forking of the south mine, cutting down shaft, &c., but the we

sevel.

SOUTH PENSTRUTHAL.—S. Davey, Dec. 21: We are progressing satisfactorily with the forking of the south mine, cutting down shafe, &c., but the wet weather retards surface operations.

SOUTH TOLCARNE.—Thos. Angove, James Knotwell, Dec. 22: By cutting Fraser's lode in the bottom of the engine-shaft we have an increase of water, and expect, it will continue until the section of the lode above this point is wall; it contains tin. We cannot yet report its value. No 2 cross-cut is hard, producing good unistone, although it does not lengthen.

TANKERVILLE—A. Waters, Dec. 22: In the 220, east of Watson's engine-shaft, the lode is 5 ft. wide, composed of white carbonate of line, with stones of ore, but at present not to value. We are on the point of a change in the lode and the country reck here, which we shall be able to speak more about next week. The stopes in the back of this level east are worth 05 tone per fathom. of the said stopes (that near the forebreast) is 6 ft. wide, and seems to be making way into the footwall side of the level proper. The end of this stope is now within about 2 fms. of the said forebreast, hence there is no need of driving a cross-cut to prove the point. The 206, west of No. 3 cross-cut on the south lode, shows a strong, sparry, over lode, worth about 15; ton per fathom. The driving a cross-cut or prove the point. The 206, west of No. 3 cross-cut on the south lode, shows a strong, sparry, over lode, worth about 15; ton per fathom. The driving a cross-cut or prove the point. The 206, west of No. 3 cross-cut on the south lode, shows a strong, sparry, over lode, worth about 15; ton per fathom. The driving a cross-cut is in a lode 3 ft. wide, composed of spar and good stones of lead ore. The rise in this level on Robert's lode is worth 25; tons per fathom. We have a lode in an old stope above the 82, near Watson's shaft, which appears to be standing on the north side of our main workings. We are exploring this point, where the lode is worth about 14; tons per fathom, and hope to report

of small tin branches. Smith shop walls completed, and masons are now pushing on with carpenters at shop and saw-house. Carpenters are preparing woodwork for roof of smith shop. Foundation for engine-house about completed (we have had to sink deeper than we expected, on account of the bose nature of the rock, and or his possible of the possible of the bose nature of the rock, and or his possible of the possible

WEST CREBOR.—John Andrews, Dec. 22: The lode in the shaft maintains its size and kindly appearance, but at the present time our progress in sinking is slow, as the water is very quick, owing to the heavy rain during the past few days.

WEST DEVON GREAT CONSOLS.—George Rowe, Dec. 22: Our progress in the stopes 3 fm timebring and cutting down the trial shaft on the Edith lode, for the purpose freceiving the pitwork and driving machinery is progressing very satisfactorily, and large rocks of gossan impregnated with good quality copper one have been fraging into the engine-house the spring and side beams. They have got through a fair amount of work since our last. The loading of our old whim-house is nearly aligned and own. When finished we can soon prepare the foundation for building a new one. We have a few lodes more to complete the delivery of our pitwork of ing cost, the sum one. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly supported the walls for material house, bump. The masons have nearly completed the walls for material house, bump. The masons have nearly completed the walls for material house, bump of the engine-shaft. Carbon for the same are delivered. No part of the engine ready. The shears for the same are delivered. No part of the engine ready. The shears for the same are delivered. No part of the engine ready of the solution of the solution of t

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THE MINING JOURNAL.

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And No. 5. White Description of the Company of the Section Section 1982. The Company of the Section 1982 and the S

productive. Judd's engine-shaft, sinking below the 85, is holed to the 80. We estimate the raising for December at 75 tons.

BUENA VENTURA.—Dec. 3: The lode in the 40, driving east of Cox's engine-shaft, yields good stones of ore occasionally. The 50, driving in the same direction, is suspended at present. The lode in the 50, driving west of Cox's engine-shaft, a good length of productive lode was opened up in the past month, but it is poor at present. The 20, driving east of Taylor's engine-shaft, has improved a little in the past few days, and is worth ½ ton per fathom. The lode in the 20, driving west of Taylor's engine-shaft, and producing ½ ton per fathom, has fallen off in value during the past week. The lode in Taylor's engine-shaft, sinking below the 20, is not so productive as it was, its present value being ½ ton per fathom. No. 3 winze, sinking below the 10, and worth 1 ton per fathom, will be holed to the 20 in the present month. The ordinary works at surface are going on very regularly, and the tributers returned a moderate quantity of ore for the past month, and are doing fairly well at present. The machinery is working cheaply and well.

ALAMILLOS.—The lode in the 130, driving east of Taylor's engine-shaft, is sufficiently large, and valued at 1 ton per fathom, but not so productive as it was. In the 130, driving west of the same direction, the lode is also strong, and worth 1½ ton per fathom. The 115, driving west of Taylor's engine-shaft, is quite unproductive at present. The lode in the 85, driving west of San Adriano's shaft, is regular and of a promising appearance, and yields occasional stones of ore. The 50, driving east of San Victor's shaft, has also changed for the better during the past fortnight, and is valued at 2 tons per fathom. In the 70, driving west of San Victor's shaft, has also changed for the better during the past fortnight, and is valued at 2 tons per fathom. In the 70, driving west of San Victor's shaft, and salso changed for the better during the past fortnight, and is v

TO THE METAL TRADE.

FOR COPPER, TIN, LEAD, &c., apply to-MESSRS. PELLY, BOYLE, AND CO., SWORN METAL BROKERS, ALLHALLOWS CHAMBERS, LOMBARD STREET, LONDON. (ESTABLISHED 1849.)

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The Mining Market: Brices of Metals, Ores, &c.

METAL MARKET-LONDON, DEC. 23, 1880.

IRON. £ s. d. £ s. d.	TIN. £ s. d. £ s. d
Pig, GMB, f.o.b., Clyde .2 11 3-2 11 41/2	English, ingot, f.o.b 94 0 0
" Scotch, all No. 1 2 13 0	
Bars, Welsh, f.o.b. Wales 5 5 0- 5 7 6	" refined 96 0 0
, in London . 5 15 0- 5 17 6	Australian 90 15 0- 91 0
,, Stafford., ,, 6 15 0	Bancanom
" in Tyne or Tees 5 12 6- 5 15 0	Straits 90 15 0- 91 0
,, Swedish, London10 0 0	COPPER.
Rails, Welsh, at works 5 5 0- 5 10 0	Tough cake and ingot. 64 10 0- 65 0
Sheets, Staff., in London 8 00-	Best selected 65 10 0
Plates, ship, in London . 7 15 0-8 0 0	Sheets and sheathing. 70 0 0- 71 0
Hoops, Staff., 7 0 0	Flat Bottoms 73 0 0
Nail rods, Staff., in Lon. 6 5 0- 6 15 0	Wallaroo 72 0 0
STEEL.	Burra, or P.C.C 67 10 0- 68 0
English, spring 13 0 0-19 0 0	Other brands 66 10 0- 67 10
, cast30 0 0-40 0 0	Chili bars, g.o.b 61 0 0
Swedish, keg15 0 0	
, fag. han.,15 10 0	PHOSPHOR BRONZE.
LEAD.	Alloys I., II., III., and IV £120 0
English, pig, common15 0 0-15 5 0	VI. and VII 135 0
L.B15 10 0-15 12 6	,, XI., Spl. bearing metal 112 0
W.B16 0 0	BRASS.
shoot and hav 16 0 0-	
mine 16 10 0-	Wire 6¾d
17 10 0	Tubes 914
	Sheets 8¾ -9 d
patent shot18 0 0-	Yel, met, sheath, & sheets 6
Spanish14 10 0-14 15 0	TIN-PLATES.* per box.
NICKEL.	Charcoal, 1st quality 1 2 0- 1 4
Metal, per cwt15 0 0-16 0 0	2nd quality 0 18 0- 1 0
Ore, 10 per cent. per ton.20 0 0-25 0 0	
	Coke, 1st quality 0 18 0- 0 19
QUICKSILVER.	,, 2nd quality 0 15 6- 0 16
Flasks, 75lbs., war. (nom) 6 5 0-6 7 6	Black per ton 15 10 0-
SPELTER.	Canada, Staff. or Gla. } 12 0 9-
Silesian15 10 0-15 15 0	at Liverpool
English, Swansea16 5 0	Biack Taggers, 450 of 30 00-
Sheet zinc19 10 0-20 10 3	14 × 10
* At the works, 1s. to 1s. 6d. per box Canada: IX 6s. per box more than IC	less for ordinary; 10s. per ton less for

Canada; 1A cs. per box more than IU quoted above, and add 6s. for each X Terne-plates 2s. per box below tin-plates of similar brands.

REMARKS .- With the exception of retail trade, business during the Christmas week is usually quiet, and since our last the metal market has, for the most part, remained inanimate. In common, however, with the general cheerfulness of the season the tone remarket has, for the most part, remained inanimate. In common, however, with the general cheerfulness of the season the tone remains fairly buoyant, and dulness in business rather than weakness in prices has been the general characteristic feature of the markets. Any activity in business at Christmas time is greatly appreciated, and especially when trade during the year, which draws so near its close at that time, has been brisk, and profits large. Considering the greatly improved and satisfactory business which has been transacted throughout the whole of the present year compared with that for the few previous years, we cannot but feel that on this score there are very few instances where the enjoyment and pleasures of the season will be marred; and, as bright prospects also tend to stimulate the cheerful tone, even to a greater extent than the amount of business which has already been done, we are glad to be able to express the strongest hope that the future of the markets will fully attain the most sanguine views which have been anticipated. Referring to past business, if a steady and continuous increase in both imports and exports be an index of prosperity, what has been done during the past few months may be taken as having been eminently prosperous, inasmuch as the official returns show a considerably larger business to have been transacted than in former years, and there seems no doubt that as great an increase will continue to be effected, as the astisfactory harvests which were ingathered during the autumn in some of our largest markets abroad cannot fail to leave their effects, and our political relations with other countries are of such a character as to give a fair promise of the continuance of profitable commercial intercourse; and, further than this, the decendence of profitable commercial intercourse; and of the civilised world, and the impetus given to iron shipbuilding, afford an assurance that there is no probability whatever of any prolonged dulness in any branch of the metal trade.

The late

The market opened on Monday at 60l. 12s. 6d. to 60l. 17s. 6d., quotations remaining firm throughout Tuesday at these figures, while yesterday more disposition was manifested to buy, and 60l. 15s. to 61l. was officially quoted, the market closing to-day steadily at the best. The amount of business, however, which has been transacted has been rather limited, but the improved tone indicates that the prospects are viewed as satisfactory, but it would appear that some great impression will have to be rather limited, but the improved tone indicates that the prospects are viewed as satisfactory, but it would appear that some great impression will have to be made upon stocks ere any renewed and continuous activity occurs in the speculative demand. The only feature in this market worthy of consideration is the moderate range of prices now ruling, and this is a point which should not be overlooked by buyers, as it tends to stimulate the demand to a material extent, so that the market is easily maintained. Low prices specially tend to increase the dembnd for shipment, and as smelters are able to purchase the raw material at favourable prices, they are consequently placed in a position whereby they can offer their manufactured copper upon advantageous terms to shippers, who some little time back did not hesitate to avail themselves freely of the moderate prices, and if the demand for manufactured for shipment is now quiet it can hardly be taken as a sign that the wants of the foreign markets are diminishing but it is to be attributed to the fact, that heavy quantities have already been shipped to India especially, and that it requires time for these supplies to be worked off before renewed buying takes place. Strong Indian sheets are cheaper, and have been sold as low as 69f. 5s., and yellow metal at 5%d.

IRON.—This market has remained rather quiet, and with the exception of a few slight fluctuations in pigs prices have undergone no change, and it does not seem likely that any particular alteration will be effected for the remainder of the year, as for the greater part of the time most of the works throughout the country will be closed for the holidays. Shipping business continues rather inactive, and the approach of Christmas has caused quietude in the demand for home consumption. Nevertheless, makers are said to hold some large contracts, which will cause renewed activity at the mills when they re-start after the vacation, and it is fully ex-

pected that the orders which will be received early next year will be sufficiently large and numerous to give constant and regular employment to the several works in the producing districts. This week fresh orders have been very scarce, especially for manufactured, what little business has been carried through being confined chiefly to the raw material. Holders of warrants have kept firm in their quotations, and no attempt has been made by manufacturers to stimulate the demand by making concessions. Confience in the stability of the market does not appear to have been in the least shaken by the quietude in the demand at the present time; in fact, considering we are passing through a period which is invariably the dullest time of the whole year for trade, and as business now is fully up to the average of what it is usually at this season, it would be a matter of surprise if the maket was depressed, especially as advices from America are most promising, and still give great reason to expect that the demand for that country will revive shortly, and also to a considerable extent.

The latest reports from New York show that steady sales of pigs are being made, and the demand continues well maintained, and prices show very little change from those last quoted. No. 1 Gartsherrie and Glengarnock are quoted at 823-50, Coltness at \$24-50, and Egilinton \$21-50. These figures show a fall of about 2s. upon Coltness, while the other brands show no alteration. For scrapiron and old rails there continues to be an active demand, and the turnover is said to be large, at previous prices—viz., \$27-50 for scrap and \$25 for old rails. The trade at Wales is said to be rather restricted, but not more so than is usual at this time of the year—in fact, some of the manufacturers hold a few good orders, and makers are reluctant to sell for forward delivery at current rates, as it is expected that the demand will further expand early next year. The improved position in the state of the trade at Sheffield is maintained, and a very fair tile

at 18., the yesterday a somewhat recovers maintained at 51s. 3d. to 51s. 4½d. cash.

TIN.—This week the tin market has been rather inanimate, and at the early part prices tended in buyers' favour, nevertheless the amount of business transacted was limited; the spirit of speculation which gave so much life to the market a week or two back having to a great extent subsided, and quietude instead of activity prevailed, but the market has since somewhat recovered. Cash parcels of fereign tin changed hands on Monday at 9d. 10s. to 9d., and on Tuesday at 9d. to 9d. 5s.; while yesterday quotations improved to 9d. 5s. to 9d. 10s., closing to day at 9d. 15s. to 9l. It seems that holders have no intention of submitting to any further material concession, and notwithstanding that the demand is dull at the present time, yet, according to the last satistics, the market appears in such a sound and satisfactory position, and the future prospects seem so very promising that most holders prefer lo risk the future course of prices than to sell at present rates.

LEAD.—There is no new feature to be reported in the state of this market; the demand is slack, but prices keep steady at last week's quotations.

SPELTER.—Quotations remain nominally unaltered, and the demand keeps very restricted for both English and foreign.

STEEL.—A moderate business is being transacted, and prices are strong at 61. 10s. for rails.

TINPLATES remain dull of sale, but prices are upheld.
QUICKSILVER.—The price has given way without leading to any

Very little change has taken place in the MINING SHARE MARKET since our last, owing to the near approach of the Christmas holidays, and as our remarks close at four o'clock on Thursday afternoon there

are a few official reports which have not yet been received, and consequently we are not able to refer to them this week.

Business has been very restricted, and prices for the most part

sequently we are not able to refer to them this week.

Business has been very restricted, and prices for the most part nominal in all mines.

Tin in the metal market has been, on the whole, rather weaker this week, but we have not heard of any change in the standard for ore in Cornwall. Blue Hills, 3½ to 4; Carn Brea, 97½ to 102½; Cook's Kitchen, 10 to 10½; Dolcoath, 56 to 57; East Lovell, 4 to 4½; East Pool, 35 to 37; New Wheal Peevor, 2 to 2½; Polrose, 1½ to 2; South Condurrow, 10½ to 11½. South Frances, owing to an improvement, have been firmer, and leave off 11 to 11½.

Tincroft, 19½ to 20½; West Basset, 15 to 16; West Frances, 10 to 11; West Peevor, 15 to 16; West Phœnix, 1½ to 2½; West Kitty, 1½ to 2; Wheal Basset, 5 to 5½; Wheal Grenville, 10½ to 11; Wheal Agar, 6 to 6½; Wheal Kitty (8t. Agnes), 3¾ to 4½; Wheal Jane, ¾ to 1; Wheal Uny, 4½ to 4½. Wheal Peevor, 27 to 28, ex div.; at the meeting, held in Cornwall, a dividend of 11. per share (3000L) was declared for the quarter. The accounts show sales of tin, 141 tons, 7195L 12s. 9d.; tin leavings, 571L 1s.; a profit of 3020L, and a credit balance of 3683L 2s. 9d. The labour costs are charged to Nov. 20, add 146L 7s. 4d. on account of bills. The agents consider the prospects of the mine are still very good, and hope, as in the past, satisfactory returns will be the result of working in the future. Wheal Jewell, ¾ to ½; Wheal Sisters, 2½ to 2½; North Busy, 2½ to 2½; North Penstruthal, 1½ to 2½. Wheal Coates, 30s. to 35s.; the improvement in the levels east and west is maintained: 6 tons of tin sold yesterday for 333L 16s. 4d.

COPPER shares generally have been very quiet, with nominal prices. Bedford United, 1 to 1½; Carnarvon Copper, ½ to 1. Devon Great Consols, 15 to 16; the 160 west is worth 4 tons of copper ore and 4 tons of mundic per fathom. The 205 west is worth 2 to 3 tons of copper and 4 to 5 tons of mundic. Devon Great United, 2½ to 3; good progress is being made in forking the water out of the mine. East Caradon, 1½ to 1½; East Crebor, 15s. to 17 Mona, 14½ to 15½; a telegram just received states that the 70 has been holed through, giving complete ventilation. This end is still

in solid ore.

LEAD mines, like the rest, are quiet, and without any change in nominal quotations. Bwlch, 2½ to 2¾; Derwent, 2½ to 2¾; D'Eresby Mountain, 40 to 50; East Craven Moor, ½ to 1; East Van, 1¾ to 2; Glenroy, 9los. to 15s.; Gorsedd and Merllyn, 2½ to 3; Great Laxey, 18½ to 19½; Herodsfoot, 15s. to 20s.; Leadhills, 2¾ to 3; North D'Eresby, 1 to 1½; Crosswood, 1 to 1½; Hartington, 1 to 1½; Kirk-Michael, 1½ to 1½; Pandora, ½ to ½; Roman Gravels, 9½ to 9¾; Pen-yr-Orsedd, 1 to 1½; Tankerville, 10s. to 15s.; Van, 16 to 17; West Chiverton, 1½ to 1½; West Holway, 1½ to 2; West Lisburne, 1 to 1½. Frongoch, 4½ to 4½; this mine has sampled 120 tons of lead for sale on the 27th, and 100 tons of blende on the 30th. On the 21st the sale of blende was 50 tons of blende, at 2½. 13s., and

lead for sale on the 27th, and 100 tons of blende on the 30th. On the 21st the sale of blende was 50 tons of blende, at 21. 13s., and 100 tons at 31. 6s. 3d. Grogwinion, 3 to 3½; this mine has sampled 100 tons of lead for sale on the 29th. Red Rock, 1½ to 2½; West Wye Valley, ½ to ½; New Wye Valley, 1 to 1½; Ystwith, 1 to 1½. South Darren, 2 to 2½; they have begun to drive the 120 levels. The 110 east is improved, and valued at 10 cwts., and the 110 west at 1 ton per fathom. Lode east of the winze at the 100 is worth 1 ton per fathom. East Roman Gravels, 17s. 6d, to 20s.; a winze is about to be sunk below the 86 in a lode worth 2 to 3 tons per fm. Stope, south of winze, worth 2½ tons per fathom; and stope north 2 tons. The 80 end is worth 1½ ton per fathom. The sampling for this month is 40 tons of lead and 20 tons of blende.

FOREIGN.—Almada and Tirito, ¾ to ½; Arendal, 2½ to 3; Brazilian Gold, 1½ to 1½; Canadian Copper, 2 to 2½; Cape Copper, 40½ to 41½; Colorado, 2¾ to 2½; Copiapo, 11½ to 12½; Devâla-Moyar, 2¾ to

2½; Don Pedro, 10s. to 15s.; Eberhardt and Aurora, 2½ to 2½; Flagstaff, 22s. 6d. to 27s. 6d.; Frontino and Bolivia, 5 to 5½; Indian Glenrock, 1½ to 1½; Indian Phenix, 1½ to 1½. Santa Barbara advices show a profit for the month of October of 528l. 1s. 7d. The gold produce was 4203 oits., valued at 1258l. 3s. 11d. New Quebrada, 5½ to 5½; Panulcillo, 5½ to 6; Richmond, 16 to 16½; Ruby, 5½ to 6½; St. John Del Rey, 200 to 230; Pestarena, 7s. to 9s.; Port Phillip, 9s. to 11s.; Sonth Indian, 1¾ to 2; Hornachos, 6½ to 7½. Placerville, 2½ to 2½; a telegram to hand this morning announces that in working this shaft a new vein 3 ft. wide and rich in gold had been intersected. Blue Tent, 1¾ to 2; the rains having set in the agent telegraphs that he has started washing again, and is assured of a good hydraulic season. Birdseye Creek, 1½ to 2, cum div.; English-Australian, 15s. to 17s. 6d.; in 9½ days they have crushed 330 tons of stone, yielding nearly 60 ozs. of gold, which is an improvement. The crushing was interfered with through having to make some alterations in the winding-engine, which were completed.

The Market for Mine Shares on the Stock Exchange, although somewhat unsettled at the beginning of the week in consequence of the approach of the Christmas holidays, continue to maintain an extremely satisfactory tone, and yesterday (Thursday) there was a general improvement in almost every class of security, mine shares so fully participating that the movement in price was almost without exception upwards. Such a state of affairs at such a season augurs well for a period of prosperity to open the coming year.

With regard to the Dynamite Monopoly an extraordinary statement was made at the Wheal Peevor meeting on Tuesday by one of the Dynamite Company's (Nobel's Explosives Company's) agents, which however should tell strongly in favour of the miners. He stated that he "had the authority of the manager for saying that the company had never paid a larger dividend than 5 per cent." The statement was received with roars of laughter; but assuming it to be accurate it demonstrates an important fact, that the purchase money paid by the company to the inventor was so high that those who supplied the actual cash paid, like Franklin, too much for their whistle. The further inference is that the inventor has already been exorbitantly paid, and that the application for the prolongation of the patent is to be made by third parties who seek to reimburse themselves for making a silly commercial bargain. It is needless to say that the Patent Laws were intended to encourage and protect inventors and not to compensate capitalists for making injudicious investments. The report of the meeting in London to oppose the prolongation as well

Patent Laws were intended to encourage and protect inventors and not to compensate capitalists for making injudicious investments. The report of the meeting in London to oppose the prolongation, as well as further reference to the subject, will be found in other columns. In Indian Gold Mine Shares there has been a large amount of business done, although the holidays have naturally had a disturbing influence, dealers thinking more of the holidays than of Indian matters; price, however, are on the whole rather higher.

The Devala Central Gold Mines Company, under the advice of Mr. Sopwith, C.E., the well-known mining engineer, have engaged Mr. Seymour, who has had a long experience in mining in connection with Mr. Sopwith, to proceed to Devala for the purpose of making a further and detailed examination of the mines on the company's property with the view of laying out the work and organising property with the view of laying out the work and organising the operations generally. Mr. Seymour left England for India on Dec. 17.

The Silver Peak Mining Company's letters of allotment and regret were posted this week; it is stated that the applications were largely in excess of the number of shares to be allotted.

Devon Great Consols shares have remained in good demand and scarce at about 16l. 17s., the bottom levels continuing to look well. The month's sale of copper ores, 902 tons, yesterday (Thursday), realised 1757l. 3s. 6d.

The months sale of copper ores, 302 tons, yesterday (Thursday), realised 17571. 3s. 6d.

Devon Great United shares advanced to about 2½ to 2½, with many buyers, owing no doubt to the highly satisfactory and rapid progress being made in pumping the water out from the bottom of the mines, and the early expectation of commencing operations in obtaining copper ore and mundic, and of making good discoveries of ores both in the deep and shallow levels on the rich Devon Great Consols lodes.

East Long Rake, 1 to 1½; a good business is reported in these shares, and it is believed that they will soon command a better price if the mine continues to open up as it is doing.

Mona, 1½ to 15½; from a telegram received this morning it appears that the 70 has now been holed, thus giving complete and ample ventilation. The new engine is working very satisfactorily, and the mine looking splendid, the 70 end being still in solid ore.

Roman Gravel shares 9½ to 10, ex dividend of 5s. per share; the levels driving south (in the direction of Bog and Pennerley Mines) continue, as they have done for years, to look well, laying open good reserves of lead ore. These mines have now returned to the share-

eserves of lead ore. These mines have now returned to the share

reserves of lead ore. These mines have now returned to the share-holders about 100,000*l*. in dividends,
South Wheal Frances shares have been in good demand at advancing prices, 11 to 12, owing, no doubt to improvements in the mines, as was stated by the agents in their report published last week Panulcillo, 5½ to 6; the fact of the company having entered the

Panulcillo, 5½ to 6; the fact of the company having entered the Dividend List has caused a large amount of extra attention to be directed to the property, which has for some time past been improving, and now presents most encouraging prospects.

Mysore Reefs shares, ½ to ½ prem., and are likely to have a great rise, as it is rumoured that a large offer is likely to be made for a portion of this company's property. It is also rumoured that one individual of great Indian connection subscribed for and paid on shares to a very great extent, and who knows the property well.

Hornachos shares are reported to have changed hands this week at 7½ upwards per share, and it is thought that they are likely to rise in price, owing to improved prospects in driving of several of the deeper levels in rich silver-lead ore ground.

Kapanga, ¾ to ½; an interesting and detailed report on this property will be found in another column. There would appear to be ample reasons for the company steadily pushing on the work now

property will be found in another column. There would appear to be ample reasons for the company steadily pushing on the work now in hand so as to reach the lode in deeper levels and open up on what has so far proved a valuable lode.

Richmond, 15\(^3\) to 16\(^1\); the usual telegzam from the mines at Eureka, Nevada, states that the week's run was \$55,000 from 900 tons of ore. During the week the refinesy produced doré bars to the value of \$50,009. The manager (Dec. 1) reports that the 800 west drift has been drifted 8 ft. in hard ground. The 800 north-west cross-cut has been extended 16 ft. on the fissure; the ground is looking more favourable for ore than it has for some time. The 900 west drift has been drifted 11 ft.; the ground more favourable for drifting. The 900 north-west has been advanced 11 ft.; the ground in the present end looks more favourable for ore than it has for some time. The 900 when a total depth of 40 ft.; in the present end the fissure is well defined, with from 3 or 10 in. of ledge matter, and looks very favourable for ore. The chambers are all looking very well, and turning out the usual quantity of fair grade ore.

Ruby and Dunderberg, 6\(^1\) to 6\(^3\); the weekly telegram confirms the statement made by the chairman at the general meeting that satisfactory returns from the furnace might very soon be expected. Nothing, it is remarked, can be more satisfactory than a run of

satisfactory returns from the furnace might very soon be expected. Nothing, it is remarked, can be more satisfactory than a run of \$15,000 in less than a fortnight from one furnace, and the result shows an average yield of \$48 per ton of ore. Snow has again prevented the customary shipments of ore from the mines, but latest advices report that the quantity of ore ready to be sent down when the reads were again passable was fully up to the average, if it did not exceed it. Next year the railway will, no doubt, be taken up to the mine, and this company will then be as independent of the snow as its neighbours the Richmond and the Eureka Consolidated arc. Roads become good shortly after the first snowfall, when the ore can be conveyed down as usual.

Missouri, 10½ to 11; advices received this week, Dated Dec. 1, state that in St. Clair Mine the 315 level north has been driven 27ft.

state that in St. Clair Mine the 315 level north has been driven 27ft. The lode has increased in value and improved in every respect, and is worth in ore 2½ tons per fathom. Two stopes have been started in the 315 north level, one from the rise, and the other 40 ft. back from the 315 north level, one from the rise, and the other 40 ft. back from present end of level. The lode in these portions of the level is worth 1½ ton to the fathom. The 315 south rise has been driven through into a clay opening The water from the winze has broken through, thereby unwatering the winze. The rise will be at once squared up, and stoping will then be commenced: and as the ore ground in the winze averaged 2½ tons to the fathom, we shall have, from all present indications, a splendid run of galena in this portion of the mine, extending for many fathoms. In the 245 fm. level 15 fms. of ground have been stoped 5 fms., producing 2 tons per fathom, and 10 fms. 1½ ton per fathom. The stope and levels in St. Clair shaft present a very satisfactory appearance for a handsome output in December. Old Engine shaft is unwatered to a depth of 250 ft., and retimbered and completed to a depth of 255 ft. We have not yet reached any level below the 175. Dressing machinery is nearly completed, but the setting of it has been delayed by the severity of the weather. Placerville, 2½ to 2½; a telegram to hand on Thursday announces that in making the shaft a new vein has been intersected 3 ft, wide

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and rich in gold. This is a most important discovery, as the lode is no doubt whole to surface. Blue Tent, 1\frac{3}{2} to 2\frac{3}{2}; the agent telegraphs that copious rains have set in, assuring a good hydraulic season, and that he has recommenced washing. At Ringold the mill has been started, and is now in full work.

Lead Mine shares have been scarcely so freely dealt in as other securities, but there has nevertheless been a large amount of business done, and the prospects are considered encouraging.

Tankerville Great Consols, \frac{1}{8} to \frac{1}{8} prem.; as will be seen by the manager's report in another column a further and most important discovery of lead ore has been made at the 92, where the lode is worth \frac{1}{8} to 5 tons of lead ore, or 40\frac{1}{8} to 50\frac{1}{8} prem.; as will be seen by the manager's report in intersect this rich bunch of ore ground.

Leadhills, 2\frac{3}{8} to 3; the shares have been in better demand, and appear scarcer to purchase since the appearance of the manager's monthly report published in our columns last week. Shareholders who may visit the property will readily see the enormous amount of work which has been accomplished both underground and at surface, all of which is for the future good of the company.

Great Laxey, 18\frac{1}{2} to 19, and shares very firm, the mines improving at several points, and the quarterly dividend being due next month. The new boring machinery is giving great satisfaction.

Bwich United, 2\frac{1}{2} to 2\frac{1}{2}; the drivage on the slide is pointing more easterly, and the lode is evidently reforming a few fathoms shead. Stones and strings of one are coming in, and it is worthy of note that a parallel slide in Own Erfin Mine adjoining to the north led to a very important discovery. The manager has great expectations on this point.

West Lisburne, 1 to 1\frac{1}{2}; the new and powerful engine is being rapidly brought into position with its attendant dressing machinery, as the mine was left in a state of production. No time is

[The closing quotations being given in the Share List on the last page of the Journal it is unnecessary to repeat them here.]

At Truro Ticketing, on Thursday, 2302 tons of ore of $6\frac{1}{6}$ average produce, and containing 142 tons 4 cwts. of fine copper, were sold for 7435l. 2s. 6d., being 3l. 4s. 6d. per ton of ore; 10s. $5\frac{1}{2}$ d. per unit, or 52l. 6s. per ton of fine copper in the ore, and an average standard of 96l. 16s. Subjoined are the particulars of the two last sales:— Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper Dec. 2. 376 ... £ 91 17 0 7½ £4 1 0 10s. 11½ ... £54 14 0 ... 23. 2302 ... 96 16 0 ... 6½ 3 4 6 10 5½ ... 52 6 0 Compared with the last sale the decline has been in the standard 1l. 5s., and in the price per ton of ore about 1s. 6d.

GAS SHARES.—The principal business in these shares, according to this evening's report of Mr. W. L. WEBB, of the Stock Exchange and Finchlane, has been in Bahia, 15%; Bombay, 5%; British, 33 to 33½; Continental, 190; European, 19½; Gaslight, A, 179 to 181; ditto, 2, 19; ditto, D, 217 to 219; ditto, E, 218 to 219½; ditto, H, 7 per cent. max., 138 to 137½; ditto, 4 per cent. debentures, 103½; Imperial Continental, 167 to 190½; Monte Video, 17 to 17½; Oriental, 7½; ditto, new, 5½; South Metropolitan, B, 179 to 182½, Imperial Gas firm, others without change. For closing prices see list on last page of Journal.

of Journal.

INSURANCE SHARES have, according to this evening;'s report of Mr. W. L. Webb, of the Stock Exchange and Finch-lane, been dealt in as follows:—Commercial Union, 25½ to 25½; Fire, 3½; to 3½; Law, 122; London and Provincial, 5½; to 5½; Ocean, 7½; Railway Passengers, 7¾ to 3½; Rock, 8½ to 8½; Royal Exchange, 405 to 412. Insurances little doing. For closing prices see list on last page of Journal.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr. W. Abbort, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

The directors of the Colonial Bank have resolved to declare at the

meeting in January a dividend of 7 per cent. for the half-year ended

The transfer books of the Aruba Island Gold Mining Company were closed on Dec. 20, and will remain so to Dec 30.

DYNAMITE QUESTION.—We understand that an important and influential meeting of mineowners is about to be held at Whitehaven on this subject.

GREAT DISCOVERY IN THE DYLIFFE MINES.—A correspondent writes:—I was glad to see the report in last week's Journal, which announced in few words that they had cut into a solid rib of lead ore 6 in. wide, which on further driving had opened out to a run of solid ore 12 in. in width. I am anxiously looking for your current number to see further news. The sett extends for a couple of miles, and it has not been a quarter worked. The company are already working on three other lodes entirely distinct from this new lode, and the discovery just made will give to the fortunate shareholders an entirely new mine. I hear from the local agent, Capt. Dean, that it has caused intense excitement in the neighbourhood, as it is better than anything eyer seen there, and I presume the directors will now than anything ever seen there, and I presume the directors will now issue the reserve shares so as to raise a fund for working the new lode in an efficient manner.

EAST ROMAN GRAVELS.—The 86 end is worth 1½ ton of lead per fathom. No. I stope in this level 2½ tons, and No. 2 2 tons. They are about to sink a winze below this level valued at 2 to 3 tons per fathom. They sample 40 tons of lead and 20 tons of hlende for the

BRITISH SILVER-LEAD.—Several hundred yards on the Great Newborough lode is proved rich in ore, and it is anticipated that the cross-out 300 yards further east and much deeper will prove the lode even richer. The parallel or north lode, the great north and south lode, and the numerous branches are all in virgin ground.

PANT-Y-MWYN.—The run of ore lately discovered west of Griffith's shaft still continues, and angurs well for the deeper levels now driving west of Modlyn shaft, which is close to the first of a series of rich runs discovered in the levels above.

of rich runs discovered in the levels above.

Wheal Uny.—At the meeting held on Thursday favourable reports were presented. The manager believes that during the coming quarter the mine will meet costs: 101. were promised towards resisting a renewal of the dynamite patent right.

Carn Brea.—The four-monthly meeting was held on Thursday (Capt. Teague in the chair). The financial statement showed a profit on the 16 weeks' working of 39511., thus reducing the adverse balance to 20001. The tin sold amounted to 341 tons, and the aggregate value of the points being worked was 4841. per fathom, and at the next meeting it is believed a credit balance will be shown.

Bedford United.—The sinking of the shaft on the Bridge Lode

next meeting it is believed a credit balance will be shown.

BEDFORD UNITED.—The sinking of the shaft on the Bridge Lode is progressing satisfactorily, and some fine specimens of grey and black ore are being brought to surface. A box of the ore has been sent to the office of the company for the inspection of shareholders, and has been pronounced to be indicative of a good lode before long.

NORTH TRESKERBY.—Capt. Richard Pryor, of Redruth, the former manager of North Treskerby Mine, has just purchased the lease thereof, and all the machinery and effects thereon, for a sum not exceeding 3000%, but somewhat under that amount. The machinery consists of an 80-inch pumping-engine, another pumping-engine of about 50 inches, and a winding-engine. North Treskerby was not stopped for poverty, but because the engine, which was situate in the stopped for poverty, but because the engine, which was situate in the western part of the sett, was not sufficient to keep out the water from the bottom level, which is rich in copper ore. The 80-inch engine, on the eastern or central part of the sett, is on a shaft which will take the lode about 50 fms. deeper. It is said to be Capt. Pryor's intention to attach a flat rod to that engine, and drain Tresidder's shaft. Rich masses of ore are said to be now under water. There are numerous tin lodes in the sett which it is hoped will pay well. are numerous tin lodes in the sett, which it is hoped will pay well for development.

PERRAN SILVER-LEAD CONSOLS.—This company has been formed to acquire and work Penhale United and Phœnix properties, Perranzabuloe. These extensive setts contain some of the richest silverlead lodes in the county. Capt. Richard Pryor is the promoter and manager.

valuable piece of ground has been added to the sett, thus enhancing the value of the property most materially. We see from the report that 40 tons of copper ore have been sampled this week from the lode discovered at only 8 fms. from surface.

The Patent Office commences at 250l., and rises by triennial increments of 37l. 10s. to 400l.

CAPPER PASS AND SON PRISEROT

discovered at only 8 fms. from surface.

Wheal Crebor.—The coming year will in all probability see this mine taking the lead of all the mineral properties in the Tavistock district, as the returns, which are gradually increasing, are likely to be considerably augmented by the addition of the ground now being laid open in the rise going up in the back of the 108 east. This point of operation is a very important feature, and as soon as a communication can be effected with a level above a valuable piece of ground will be available for stoping.

English-Australian.—The directors have received advices from Mr. Pollard, dated Fryerstown, Nov. 11, in which he reports few changes of importance since last report. He had crushed 330 tons for 9½ days' crushing, with a result of 59 ozs. 13 dwts. retorted gold, an average yield of—say, 3½ dwts. per ton, and next month he expects to show an improvement. The crushing had been retarded by some alterations necessary in the winding engine, which at the date of writing had been made, and the engine was working well.

Benhar Coal.—The resolutions of the shareholders' committee,

BENHAR COAL.—The resolutions of the shareholders' committee, one of which proposes a voluntary form of liquidation, and the other a judicial form under the supervision of the Court, have been under consideration of the directors, and after some verbal amendments bringing the resolutions into legal shape, they gave them their assent.

consideration of the directors, and after some verbal amendments bringing the resolutions into legal shape, they gave them their assent. THE MINERAL RESOURCES OF COLORADO.—The monthly circular of the Citizens' Mining Investment Company of Leadville, Colorado, states that the ore and bullion products for 1879 was:—Lbs. of bullion, 37,727.797; ozs. of silver, 6931-408; value of silver, 87,743,11681; ozs. of gold, 818.8; value of gold, \$16,376.37; value of lead, \$1,496,437.64; total value of bullion produced, \$9,250,928.85. High grade ore was shipped to foreign reduction works, \$2,751,879.76; gold yield from placer mines, \$30,000.00: total productions, \$12,032,808.61. And for the first three months of 1880:—Lbs. of bullion, 14,686,558; ozs. of silver, 2,342,360; value of silver, \$2,650,044.16; ozs. of gold, 569.11; value of gold, \$11,436.00; value of lead, \$581,788,06: total for three months, \$3,722,397.81. Total production first half of 1880, \$7,813,866.00; July, \$1,054,439.00; August, \$1,296,352.00; September, \$1,502,968.83; October, \$1,287,984.00: total production first ten months of 1880, \$12,955,609.93. When comparisons are made of above totals for 1879, and only ten months of 1880, and it is remembered that, on account of the protracted strike of the miners at Leadville, all of the heavy-producing mines were shut down a part of the summer it will be seen that the present condition of affairs in Leadville is most favourable: 13 smelters, wth 35 furnaces, are running to their full capacity, and to guard against the recurrence of a strike they have in their bins and yards thousands of tons of ore not included in the above statistics.

THE DYNAMITE MONOPOLY.

ATTEMPTED PROLONGATION OF PATENTS.

A T a MEETING of PERSONS connected with the WORKING of BRITISH and FOREIGN MINES, held at the offices of Mr. PETER WATSON, 18, Austin Friars, Old Broad-street, on Wednesday last, for the purpose of OPPOSING the APPLICATION about to be made by the DYNAMITE COMPANY for an EXTENSION OF TIME for the EXPIRATION OF THEIR PATENT,

MR. PETER WATSON in the chair,

MR. PETER WATSON in the chair,

The following Resolutions were unanimously passed:—

"That this meeting pledges itself to do their best to procure the funds necessary to employ Counsel to oppose Messrs. Nobel's application to the Privy Council for an extension of the term of their Patent."

"That Mr. Peter Watson, Mr. Darlington, and Mr. Waddington be appointed a Committee to take all necessary steps to carry out the object expressed in the last Resolution."

"That it be an instruction to the Committee, if they deem it desirable, to place themselves in communication with the Mining Institute of Cornwall, and any other parties who may desire to oppose an extension of Messrs. Nobel's Patent, with a view to act with them in furthering such opposition."

The Committee of "The Dynamite Fund," consisting of Messrs.
PETER WATSON, JOHN DARLINGTON, and HARTLEY WADDINGTON,
will be glad to RECEIVE SUBSCRIPTIONS from Mining Companies, Managers, and Shareholders interested in British and Foreign
Mines.

Letters, with remittances, to be addressed to Mr. Peter Watson, No. 18, Austin Friars, Old Broad-street, E.C., or subscriptions to be paid direct into the account of "The Dynamite Fund," with the Alliance Bank, London, E.C.

New and Important Colliery Instrument.—It is stated that Mr. Alan Bagot, M.P., who is already known as a useful contributor to mining literature, has now designed an instrument which promises to be of great advantage in connection with the safe working of collieries; it is to measure the exhaust produced by a vacuum fan in ounces per square inch. The apparatus consists of one of his patent barometers with a double contact arrangement. The contact pin is adjusted to the ordinary atmospheric pressure, the other to a point slightly below the exhaustive effect of the vacuum fan when the depression is equal to 1½ in. of water gauge. The electrical contact apparatus is worked by a Leclauche's battery of six cells. The effect of the apparatus is that if the air in the mine finds a short cut into the returns, electrical warning is given on one indicator; on the other hand, if the friction of the air or "drag" is increased to a dangerous point, the engine-driver's attention is electrically called to it on the other indicator. The apparatus is now being erected at Harris's Navigation Collieries, the deepest mines in South Wales; and the preliminary experiments have satisfied the South Wales; and the preliminary experiments have satisfied the engineers of the great value of the invention. The readings given by the gauge indicate the actual pressure per square inch that exists in the up-cast shaft; this subtracted from the atmospheric pressure checks the water-gauge reading, but one of the chief features of the apparatus is that it works out its own calculations.

TECHNICAL COLLEGE FOR DUNDEE—MUNIFICENT OFFER.—At the meeting of High School directors, on Wednesday, Dr. J. B. Baxter, the Procurator Fiscal, in the course of some interesting remarks, said that he could not see why they should not have a collegiate town. There was a movement some years ago to carry into effect that great and beneficent purpose, and he would have expected that it would have borne good fruit if that dark cloud of commercial depression had not settled upon the town.

If the movement shall be resumed and prosecuted, or a new movement made, and if a satisfactory constitution for a college, to be located in Dundee, and to embrace Arts and Science classes—a college similar, or nearly similar, to the Owen's College, Manchester—can be obtained, he was now in a position, with the munificent assistance which has been rendered to him, to place at the head of a subscription for the institution of such a college a sum of 125,000l., to be paid by three or four installments as necessity shall require, or as shall be called for by any superintending committee. Dr. Baxter was sure they could not confer a greater boon upon Dundee than to carry out such a scheme as that; and that is the half of the C A P T A I N G O C sum necessary—250,000%.—and he hopes that now that the founda-tion has been laid their enterprising citizens will not be tardy in coming forward with the other half. The members generally ex-pressed their great gratification at hearing Dr. Baxter's munificent offer, and the hope was expressed that the provost and magistrates would take up the subject and call a public meeting, in order that steps might be taken to carry on the movement to a successful issue steps might be taken to carry on the movement to a successful issue.

zabuloe. These extensive setts contain some of the richest silverlead lodes in the county. Capt. Richard Pryor is the promoter and manager.

The Patent Office.—It is announced that an open competition for six situations as index and abridging clerks in the Patent Office will be held in London on Tuesday, Jan. 25, and following days. A preliminary examination will be held in London, Edinburgh, and Dublin on Friday, Jan. 14. Candidates must give notice to the Secretary, Civil Service Commission, on or before Jan. 4, in their traordinary discovery now made. We understand that a large and

CAPPER PASS AND SON, BRISTOL,

ARE BUYERS OF

LEAD ASHES SULPHATE OF LEAD, LEAD SLAGS, ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &C and DROSS or ORES containing COPPER, LEAD, AND ANTIMONY.

GEO. G. BLACKWELL,

CHAPEL STREET, LIVERPOOL,

PURCHASER OF

MANGANESE, ARSENIC, FLUOR-SPAR, WOLFRAM, BLENDE, CALAMINE, CARBONATE and SULPHATE OF BARYTES, ANTIMONY ORE, CHROME ORE, MAGNESITE, EMERY STONE, PUMICE STONE, OCHRES AND UMBERS, CHINA CLAY, LEAD ORE FOR POTTERS, TALC, PHOSPHATE OF LIME, &c.

MESSRS. KENDALL AND CO.,

PRACTICAL AND CONSULTING MINING ENGINEERS,

WEST OF ENGLAND MINING EXCHANGE, ST. AUSTELL, CORNWALL.

TO CAPITALISTS AND INVESTORS.

ENDALL AND CO. having had over in all its various branches, and being daily associated with the various operations of Mines in Cornwall, are enabled to speak with authority as to the position and prospects of Mines. Their advice will be found most valuable, as well as to those who have already invested, and to intending investors.

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The increasing favour for mining as an investment has caused J. J. R. to select three or four Progressive Mines which possess the strongest claim on public confidence. These consist—first, of proved lodes and strata; second, abundance of capital subscribed; third, proved mining knowledge to rapidly and properly apply the same.

J. J. R. confidently believes that at least three of the four mines referred to will not only declare dividends, but will advance in price some hundreds per cent, in a short time.

will not only declare dividences, cent. in a short time.

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68 East Buller.
69 East Buller.
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60 East Caradon.
60 Now Wet Valley.
60 Emms.
61 Frongoch.
62 Sow Kitty.
63 East Grandon.
64 New Wye Valley.
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FOR SALE, the WHOLE or PART below quoted prices:

50 Bwlch United.
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Mistaken investors before losing their money had better read the article on gold in "80W AND REAP."

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GREAT FIELDS O F BRITAIN: COAL

THEIR HISTORY, STRUCTURE, AND RESOURCES; WITH DESCRIPTIONS OF THE COAL FIELDS OF OUR INDIAN AND COLONIAL EMPIRE, AND OF OTHER PARTS OF THE WORLD.

By EDWARD HULL, M.A., F.R.S.,

By EDWARD HULLI, M.A., F.K.S.,

Director of the Geological Survey of Ireland; Author of "The Physical Geology and Geography of Ireland."

Fourth Edition, demy 8vo, with Map and Illustrations; cloth, 16s.

This edition has been largely re-written. It contains an entirely new chapter on Carboniferous Plants, kindly drawn up by Professor Williamson, F.R.S.,
Manchester. The classification of the Carboniferous Series of Beds has been modified in accordance with the views enunciated in my paper on this subject,
all before the Geological Society of London in 1977. The account of the various coal fields has been modified in accordance with more recent investigations
far as my information extends, and the statistical portions have been brought down to the date of 1878."—Extract from Preface.

London: EDWARD STANFORD, 55, Charing Cross, S.W.

ANGLO-AMERICAN MINING.

DICO SILVER MINING COMPANY OF COLORADO (LIMITED LIABILITY), CHICAGO, U.S., carefully managed at small pense. Profits of 100 per cent. per annum are expected, much more may be alised. The property of the company is at Rico, on the Ric Dolores, in South-lestern Colorado—a district containing the richest and most easily worked lyer and Gold Mines in the world.

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MONEY AND MINING.

T IS WELL TO LOOK BEFORE YOU LEAP, Anyone who thinks of putting money into Mining can, by writing to me, have sent, post free to his address, a CIRCULAR, which will give him Valuable Information, Points of Financial Utility, and Practical Views regarding Mining Investment

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Extracts from J. J. WEST'S Circular on Mining Investments:-

Extracts from J. J. West's Circular on Mining Investments:—
With an occasional exception, such as the Richmond Consolidated, which pays dividends of from 40 to 50 per cent. per annum, English capital invested in America has not paid.

Excessive capitalisation, mines stocked for millions of dollars, or hundreds of thousands of pounds, want of due oversight and proper economy in working and managerial expenses, incompetent or dishonest management have, by far, more often caused loss of money to English and American investors than a failure or lack of richness in the mines.

In Colorado a new order of things as regards mining is coming into vogue: business men are conducting mining operations on business principles, making money out of the ore extracted from the earth. Ralicoads are penetrating into the heart of hitherto inaccessible districts rich in mineral wealth.

Let English investors try this new order of things; let them try placing their induced, while property is still cheap.

The Ricc Silver Mining Company offers them the opportunity of sharing in this great profits to be made, by purchasing silver and gold mines from actual 1 respectors and locators, and judiciously and economically developing and working the mines so purchased.

Notices to Correspondents.

ANNING—"W. J. A. D." (Glasgow).—The address of the firm interested in the improved process described in the Mining Journal of Dec. 11 is—Marylebone-road, London.

road, London.

ORRESPONDENCE.—All business letters should] be addressed to "The EDTTOR," and not to individuals. Private letters, except for the Proprietors, should not be sent to the office at all, as it must be distinctly understood that all letters received are, however they may be addressed, regarded as connected with the business, and opened accordingly.

received are, nowever they may be addressed, regarded as conflucted when business, and opened accordingly.

WEST MARY ANN.—Permit me to say that this mine is at present in 3000 shares on the Cost Book Principle, and not in 5000 on the Limited Liability Principle, the arrangement, therefore, proposed some months ago having been dropped, and it is to be hoped the latest improvements on the property will benefit the smaller number of shares.—ADVENTURER.

QUARTZ OPERATORS' HANDBOOK—"J. G. G." (Aberystwith).—The work of which Mr. P. W. Rundall is the author is published by Mr. D. Van Nostrand, Murray-street, New York. The revised and enlarged edition could be obtained by ordering through Measrs. Tribner, Ladgate Hill, London, if they have none in stock.

BLACK AUTOCOPTIST—"J. O." (Redruth).—The original is written with a very free-writing ink, and the transfer is made to obtain the negative precisely as with the chromograph, which you appear to use very well. Almost the only difference is that the negative is rolled each time with special printing link.

The copies—of which many hundreds can be readily taken—can scarcely be distinguished when the work is carefully done from an original produced with good black writing ink.

CAMBRIAN—"J. S." (Thetford).—If you cannot obtain the price quoted apply to the Secretary, who will at once inform you who are purchasing it.

the Secretary, who will at once inform you who are purchasing it.

EAST WHEAL ELEEN.—In June last this mine was advertised in the Mining Journal, and shares were to be applied for to Mr. Chas. Bawden, Poldice House, St. Day, Scorrier, Cornwall, or the Cornish Bank. I accordingly applied to Mr. C. Bawden with the amount due for application, and received his receipt, since which I can get no reply to civil letters of enquiry, have had no advice of any meeting, and even my solicitor can get no answer. Will the Cornish Bank or some correspondent of the Mining Journal state whether the mine is in operation, or how the subscriptions have been disposed of.—J. C.: Wudnes. Nouveau Monde.—J. C.: Wudnes. Nouveau Monde.—J. C.: Wudnes. Mining Journal, had pursued his enquiries a little further he might have learnt that Mr. Oxiand is no longer in the service of the Nouveau Monde Company, but on his way out to take over the management of the renowned Callao Mine.—A LOVER OF TRUTH.

HAMBURG LOTTERY—"M. R." (City).—The issue of the tickets in this courses.

A LOVER OF TRUTH.

LAMBURG LOTTERY—"M. R." (City).—The issue of the tickets in this country is altogether illegal. The circulars have been sent broadcast by Messrs. V. and Oo., of Colomasien, against whom there is no remedy in the English Courts, but all who send money will almost inevitably lose it. The general mode of dealing in all these lotteries is this. Suppose a capitalist takes ten 18-shilling shares, he will find after the drawing that perhaps one (more frequently not one) of the numbers has won a prize of a few marks, which are seldom, if ever, remitted (less the 10 per cent. agents commission) to the winner, but instead thereof he is sent some more tickets in a new lottery with a demand for the balance. The agent has always a profit; the player never. Those who do not accept the caution deserve to lose.

coupt the caution deserve to lose.

OLDERT SCHENTIFIC SOCIETY—"T. H." (St. Andrews).—The oldest scientific society in existence is declared by Mr. De Laveleye, of Brussels, to be the Academy of the Lyncael, which was founded at the beginning of the 17th century by four young men, who took as their symbol the lynx—an animal then to be found in the Apennines—with the motto, Segacias into. The members "were to penetrate into the interior of things in order to know the causes and operations of nature, as it is said the lynx does, which sees not only what is outside, but what is bidden withis." Their dream was nothing less than the organisation of modern science based on the method of observation—the church of knowledge. The academy was to have in the four quarters of the globe dwellings with sufficient endowments to maintain the members who might live there in common. These dwellings were to be provided with libraries, laboratories, museums, printing presses, and botanical gaddens—in a word, with everything necessary for study. Their observations were to be communicated by writing to all the members. The Lyncai were to renounce marriage as a molific and if the interior of the lights of the receivers, and injurious to study: inverteheless, monks were not admitted. The academy was reorganised in 1875, and at the present time members of various nationalities, including men of the highest scientific reputation in the countries to which they belong.

REMOVING FIRE-DAMP BY BORE-HOLES.—It has been stated that bore-holes from the surface have been tried in Belgium for the purpose of freeing the coal mines from gas. Can any of your correspondents give particulars about this, the result, &c.?—M.E.

Tesuit, &c. r—M.E.

CRUSHING MACHINERY.—I should be glad to know if there are any data by which
the performances of machines at the disintegrator class can be compared with
those of the Cornish crusher. One of the greatest boons to mining would be
a machine capable of reducing the material to fragments of a uniform size
without over-pulverising the softest particles of the ore, which are generally
the richest. I am practically acquainted with crushing ores, and have some
ideas on the subject, but would like to profit by the experience of any of your
practical correspondents.—W. M.

in the first line. Kindly correct and it shall be attended to,—" R. S." (Truro).

Too late: will receive attention next week.

THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, DECEMBER 25, 1880.

THE EMPLOYERS' LIABILITY ACT, 1880-IMPORTANT OPINION OF COUNSEL.

OPINION OF COUNSEL.

The above Act, which comes into operation a week hence, it is now seen, is not likely to affect mineowners and other large employers of labour to the extent that it was at first expected to do. It appears that there are several ways in which masters can so arrange as to lessen their responsibility and place some of it where it should in strict justice rest. The Attorney-General has laid it down that a contractor under an employer, or a stall-man in a mine, are the parties who are liable for any injury that may be inflicted upon the persons they employ. But to make certain of the power of the employer, a short time since a committee of mineowners was appointed to draw up a series of questions bearing on the provisions of the Act, and place them before counsel for their opinion. This was done, and the questions put into the hands of Sir F. Herschell and Mr. Horace Smith, Q.C. The first question to which the attention of the learned counsel was called was whether the parties interested could contract themselves out of the Act, to which the reply was, "We are of opinion that parties interested can contract themselves out of the Act, there being nothing in the statute to prevent the making of such a contract. The Act by section I gives a right of action; but this right of action, like other rights of action, may be parted with for good consideration. Thus it was held that a railway passenger may contract to be taken at his own risk—that is, he may abandon his right to sue for negligence (Macaulay r. Furness Railway Company, 42 L. J., Q. B. 4, L. R., 8 Q. B., 57)." This important point, on which considerable doubt rested, may now be considered as settled after the very emphatic opinion given by the two learned counsel with respect to it.

The second question put was—Whether in case of injury in or

The second question put was—Whether in case of injury in or about a mine or the surface works connected therewith, the legal representatives of the workman and any person entitled in case of representatives of the workman and any person entitled in case of death, can, by the contract of the workman, be excluded from other rights under the Employers' Liability Act, 1880, and under Lord Campbell's Act, and the general law. As the point is a most important one, the opinion given is both elaborate and clear. The learned counsel say, "It follows if the party may make a contract to abandon his right, his executors, as such, are bound by such contract as they would be by any other contract made by him. The persons, however, entitled to sue under Lord Campbell's Act, do not sue as executors, although the action is brought in the name of the executor (Leggatt v. Great Northern Railway Company, L. R. 1 Q. B. Div. 599); and if the relatives had a wholly independent right of action arising from the fact of the death, the party in his lifetime could not dispose of such right of action as against such relatives, and if he attempted to do so, however, the contract might bind his executors as such it could not bind him as representing the relatives. But in fact the relatives have no right of action arising from the fact executors as such it could not bind him as representing the relatives. But in fact the relatives have no right of action arising from the fact of the death, but only such right as the deceased had at the time of his death, which, in a sense, is preserved to them by Lord Campbell's Act. Though their claims under it may be different, they take it subject to the same bars to its maintenance as existed in the case of deceased. So that if by settlement of his claims (see READ v. Great Eastern Railway Company, L. B. 3 Q. B. 555; 37 L. I. Q. B. 278), or by any other agreement as by undertaking all risk (MACAULEY v. Furness Railway Company, supra), he has lost his right; his relatives we think would have no remedy. If, therefore, a workman makes a contract not to sue under the Employers' Liability Act, he is barred by the contract during his life; his executors after his death are barred by the contract from sueing for the loss of wages, &c., between the injury and the death; and the executors, as representing the relatives, cannot recover after the death, because the deceased the relatives, cannot recover after the death, because the deceased was not entitled to bring an action, having abandoned his right."

As to the amount to be paid, when a deceased person was a mem

was not entitled to bring an action, having abandowed his right."

As to the amount to be paid, when a deceased person was a member of an insurance association was the next point raised in the question—Whether, in case counsel should be of opinion that the last-named parties cannot be so excluded, the total sum recoverable under the Employers' Liability Act, and under Lord Campbell's Act, and the general law, would, in case the deceased was a member of the society, be the balance between three years' estimated earnings and the benefits receivable by the relatives under the rules of the society? The answer was—"We are of opinion, as above stated, that the parties can be excluded, and therefore this question does not arise. We may say, however, that it is clear that the sums received under insurances or otherwise must be taken into account in assessing the damages to which the party is entitled. But it is open to contention under the terms of section 3 of the Employers Liability Act, that if the damage sustained can be shown to exceed monies from insurance, &c., by any amount within the sum representing three years' earnings, the amount of that excess would be recoverable, and it is impossible to say with any certainty what the Courts would eventually hold on this point." There is here a matter certainly of not much significance, which is open to dispute, but time and the courts of law will ultimately settle it.

The question as to the drawing up of the form of service where the provisions of the new Act are not to be carried out is a most important one, and minesomers and others will be glad to find that a form

three years' earning able, and it is impossible to so, would every mine adventurally hold on this point."

In the question as to the drawing up of the form of service where the provisions of the new Act are not to be carried out is a most important one, and mineowners and others will be glad to find that a form has been drawn up by the learned counsel, which we give below. It should be adopted in all cases where the masters and workmen have agreed to contract themselves out of the Act by forming an insurance society. The wording of the query was—"Whether, supposing a contract can be made, it can be affected by conditions of service posted up? If so, whether the conditions of service suggested legally carry out the intentions of the parties? If not, in what form a legally carry out the intentions of the parties, and a legally carry out the intentions of the parties, and a liable to the manufacturers can afford to sell an equally good article and still earn a profit. It is for this reason, amongst others, that the prolongation of briefs, it is earnestly to be hoped and every mine adventurer will forward the limited to the manufacturers can afford to sell an equally good article and still earn a profit. It is for this reason, amongst others, that the prolongation of briefs, it is earnestly to be hoped and every mine adventurer will forward the still more the provisions of the parties.

The question as to the drawing up of the form of service will be prived that a form that a form the prively Council are some.

The present the prively Council are some.

The p besides on the subject, but would like to profit by the experience of any of your persetted correspondents.—W. M.

Liability of Advertures in Cost-Book Mines.—A Cost-Book mining company has this month issued the following notice of resolution, to be confirmed at the forthcoming meeting of its sharebolders:—"That all shares in arrear of calls (or any portion thereof) made prior to Oct. 19, 1830, be now, and they are hereby, forteleted, but subject to restoration if the amount due be paid or calls (or any portion thereof) made prior to Oct. 19, 1830, be now, and they are hereby, forteleted, but subject to restoration if the amount due be paid on or before Dec. 21, 1830." At foot of the circular is the following addendam: "22 and 33 Vict., ch. 19, sec. 22: Any shareholder whose share has been for felted shall, nevertheless, be liable to pay all calls, interest, and expenses payable on or in respect of the same at the time of forteliture." In a recent number of the Mining Journal a correspondent, expatiating upon the advantages of the Ost-book System, pointed out that a shareholder could at any moment or, can the company legally claim and recover arrears of calls made antecedent to the surrender of the shares? Light upon the shares held by him, cr, can the company legally claim and recover arrears of calls made antecedent to the surrender of the shares? Light upon the point will oblige—Isovorus. The contract the contract should be a first the contract should be a first that the contract should be liable to stamped, as it is hire of a labourer, artificer, or manufacturer are in the same position as relinquished shares in this respect.]

Recoved,—IP, W.: "a letter sent to the address saked for is D. C. Davies Gobowen, Oswestry, Waies.—"H. C. 8.": Must send his marne.—"H. N. and Co. Cliverpool): Either the matter is a menth stale or there is an error in the date.

they can see it, and it should be part of the agreement with the miners that they should call the attention of the drawers to the conditions. We see nothing to object to in the suggested conditions of contract. But we think the fourth condition would be better in the following form:

contract. But we think the fourth condition would be better in the following form:—

"In consideration of such payment by the employer, and of being employed at these works, and as part of the terms of employment, every person so employed undertakes for himself and his representative, and any person entitled in case of his death to look to the funds of the said society alone for compensation in case of injury sustained in the course of such employment, whether resulting in death or not; and that neither the employer nor any other person in his employment, whether a fellow-servant or not, shall be liable under the Employers' Liability Act, 1880, or otherwise, in respect of any negligence occasioning such nijnry. No formalities would be necessary upon signing the book except that the signer should have full opportunity of knowing what is in the book. If a separate book is handed to him to take away it would be presumed he read it, but if one book only is kept by the employer, the contract contained in it should be only is kept by the employer, the contract contained in it should be read by the signer."

With respect to rules for insurance societies the question is put

upon the propriety of altering the rules of the society in the manner suggested, and whether such alterations are vithin the powers of the Friendly Societies Act? To this counsel say "We think the consideration of the exact terms of the rules should stand over for discussion, when the parties have more definitely determined what they should provide for."

Questions were afterwards put in the shape of further instruc-

Questions were arterwards put in the snape of further instruc-tions, the first being—"As to the way in which the conditions of employment shall be made capable of application to obedience to orders given in the course of business?" Counsel reply—"When the contract or conditions do not comprise the whole of the terms of the contract or conditions do not comprise the whole of the terms of the contract between the parties, they should state that the employment is upon all other usual or customary terms." The only other remaining question was—Whether an honorary member or an ordinary member of the Lancashire and Cheshire Miners' Permanent Relief Society, in case the funds of the society should prove insufficient to meet the claims upon them, would be liable to contribute towards the deficiency, or whether his liability is limited to the payment up of his subscription as long as he relugative statistics the account. the deficiency, or whether his liability is limited to the payment up of his subscription so long as he voluntarily continues to be a member? The answer was—"We think that neither ordinary nor honorary members are liable to contribute in case of an insufficiency of funds. Apart from the proposed contract the members of the society are not liable to contribute towards any deficiency. A member can only come upon such funds as there are." This is a contingency which we should say is not likely to arise, for we do not believe that the funds of a society will ever get so low as to be unable to meet in full all claims that can be legally made against it. On the contrary, we believe that by increased contribution the funds of the insurance societies will go on increasing from year to year.

The value of the opinions of the learned gentlemen given above, fortified as they are by the cases decided, and to which reference has been made, cannot be over-estimated, so that they cannot fail to be appreciated by mincowners and railway companies, but also by all persons who are employers of labour, and to these we recommend

all persons who are employers of labour, and to these we recommend their careful consideration, so that a good and legal understanding can be come to without having recourse to costly and vexatious litigation.

THE DYNAMITE MONOPOLY.

THE ATTEMPTED PROLONGATION OF THE PATENT.

There has seldom been a time when the united action of British miners of all classes has been more urgently necessary than at present, for they are called upon to protect their own interests by using their most strenuous endeavours to prevent the extension of one of the most unjustifiable monopolies of modern times—the Dynamite Patent—unjustifiable because even the jndges of the Superior Courts have differed as to the validity of the patent itself, as granting the enormous monopoly claimed for it, and more especially unjustifiable, because the patent has been most arbitrarily and exactingly used by its possessors to place British miners at a great disadvantage as conbecause the patent has been most arbitrarily and exactingly used by its possessors to place British miners at a great disadvantage as compared with their rivals in foreign countries, inasmuch as they have been compelled, as stated in last week's Mining Journal, to pay 200l. per ton for an article no better, if so good, as more than one foreign manufacturer can deliver into the same magazines in this country at about 100l. per ton—a price which would doubtless be still further reduced by wholesome competition. With regard to dynamite itself it has been justly observed by Mr. GEO. M. MOWBRAY, one of the best authorities on the subject, that the name is the only real invention connected with it. There has been, perhaps, more sympathy displayed towards Mr. NOBEL in this country in connection with dynamite, owing to the prevalence of the false notion that he was the displayed towards Mr. Nobel in this country in connection with dynamite, owing to the prevalence of the false notion that he was the discoverer of nitro-glycerine—the only active ingredient in dynamite. But in truth the discovery of nitro-glycerine was due to ASCAGNE SOBRERO in 1847, many years before Nobel knew a burette from a test tube, and everywhere else but in England it is considered that the admixture of nitro-glycerine with an inert substance—any inert substance being quite as valuable for the attainment of the object in view as kieselguhr—was a "principle," and therefore not patentable, and that moreover the admixture was practised as early as the date of Nobel's patent, although for reasons of policy the composition was kept secret by the Prussian military authopolicy the composition was kept secret by the Prussian military autho-

pointy the composition was kept secret by the Prussian mintary authorities, and no patent was taken.

The real point at issue, however, is not so much the question of priority—for it will now hurt no one to give Mr. Nobel the full credit of it—as the question of contract, and in this connection it may even be admitted that the expiring patent was valid when taken. It is the fundamental principle of the English Patent Law that an inventor is permitted by it to sell his discovery to the public maps cortain towar, these torus height that he had leaven momentum. upon certain terms, those terms being that he shall enjoy a monopoly of the invention for 14 years. No inventor is compelled to obtain a patent, but he knows full well that identity of means for accomplishpatent, but he knows full well that identity of means for accomplishing the same end is so common when several turn their attention to the same subject that the purchase of a patent is a good investment, whilst the advantage gained by the public is that in return for this 14 years protection the community ultimately acquire a knowledge of valuable details which might otherwise be kept secret, and be lost on the deach of the inventor or discoverer of them. So far it is a mere matter of contract—14 years monopoly in exchange for 1751., and the details of an invention involves a considerable expenditure of time and money, so that an insufficient proportion of the 14 years remains for the inventor to reimburse himself, and secure the reward he is entitled to for the benefit he has conferred on the public, hence the Privy Council are sometimes induced to prolong the monopoly

ome subscription, however small it may, to ensure that the necesary funds for the opposition shall be forthcoming, and still more to how that they sympathise with and support the movement which,

be it remembered, is being made in the common interest of every consumer and every user of dynamite throughout the kingdom. It was announced in last week's Mining Journal that a meeting of those interested in mines would be held on Wednesday at the offices of Mr. Peter Watson in Austinfriars; and the number and position of those who attended suffice to demonstrate the great importance attached to the subject, and the excessive liberality with which the ey

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holders of NOBEL's patents have rewarded themselves for intro-ducing what is acknowledged to be a valuable invention. As to whether the patent should have been granted at all is a question not now worth discussing, especially as, giving the holders of it the benefit of the doubt, it is obvious that they have been excellent well benefit of the doubt, it is obvious that they have been excellent well rewarded for the advantage which the introduction of dynamite has yielded. The Council of the Mining Institute of Cornwall are already exerting themselves to secure the combined opposition of miners and quarrymen generally, and at the London meeting, that the larger mines should subscribe 10*l*. each and the smaller 5*t*. towards the expenses to be incurred, it being understood that any surplus funds will be returned pro rata to the subscribers. The matter is one in which miners and mine adventurers must move at once, or it may be too late; and that there shall be no miscarriage of the one in which inhers and inhie adventurers must have at once, or it may be too late; and that there shall be no miscarriage of the matter through delay, it may be announced that subscriptions, whether from mines or individuals, should be sent at once to Mr. Peter Watson, 18, Austinfriars, who will see that they are gratefully received and faithfully applied. The movement deserves the hearty support of every one connected with mining, and we wish it

SMOKELESS COAL FOR LONDON CONSUMPTION.

It appears that a National Health Society has been established for the purpose of using smokeless coal in the Metropolis, who have come to the resolution that the smoke nuisance, so injurious to health, can only be averted by the use of anthracite coal. The smoke arising from the coal now consumed in London we are told causes the death of thousands of the inhabitants. We always have considered London to be fully as free from smoke as any town in the kingdom considering its given by the propers of the many of our manufacturing centres. of thousands of the inhabitants. We always have considered London to be fully as free from smoke as any town in the kingdom considering its size, and far more so than many of our manufacturing centres. Actuated, no doubt, by the best of intentions the gentlemen who are moving in the matter will soon find that the scheme is impracticable, and for more reasons than one. Anthracits coal, of which they speak in the highest terms, is by no means adapted for household purposes, and is entirely out of the question for gas making. London consumers would find it no easy matter in the first place to ignite it, which to them in the shape of time is of some little importance. But were it possible to improve the health of London and our large towns by the adoption of anthracite coal we should like to know where it was all to come from, and what would become of other large mining districts if the whole of the South Wales field if smokeless coal was opened out. The anthracite districts are in the western part of the field, for the seams undergo a marked change in their extension from east to west, commencing with the bituminous or gaseous coal, then the semi-bituminous or steam coal, and further to the west shows the anthracite. London alone consumes 10,000,000 tons, a comparatively small proportion of which is anthracite; therefore, it may be assumed that to supply the Metropolis with anthracite coal is simply an impossibility.

But after all is the smoke made in the Metropolis actually injurious to health? Medical men do not say that it is, and Mr. HULL, in his work on the Coal Fields of Great Britain, truly says that years of experience have proved the fallacy of the imputation that the smoke so contaminated the atmosphere as to make it injurious to the public health. So far back as 1306 there was a similar outcry, and we are told that this became so general that the Lords and Com-

smoke so contaminated the atmosphere as to make it injurious to the public health. So far back as 1306 there was a similar outery, and we are told that this became so general that the Lords and Commons in Parliament assembled presented a petition to EDWARD I., who issued a proclamation forbidding the use of the offending fuel. But the proclamation against the coal was not much heeded, as its value was soon recognised where it was for a time dispensed with. It will, however, be seen that the gentlemen who have now taken the pattern of the order to wind the matter of the proclamation and the public them although a very old one. But the proclamation against the coal was not much heeded, as its value was soon recognised where it was for a time dispensed with. It will, however, be seen that the gentlemen who have now taken the matter in hand have a precedent to guide them, although a very old one. But it has not yet transpired what course they purpose to adopt in carrying out their philanthropic scheme, whether by application to Parliament, or the power of persuasion. One, no doubt, would be as successful as the other. But it is not only smoke that is being battled with, or at least about to be, but London fog is also to be attacked in front and rear, for we are informed that in connection with the National Health and Kyrle Societies there is a Fog and Smoke Committee, with powers, no doubt, to make everything in their department clear and palpable. We are not told how the metropolitan fog is to be overcome, but it will in all probability be largely prevented by the adoption of smokeless coal. The London Health Society are about to make experiments, not only with the anthracite, but other descriptions of coal and appliances, as we understand, at South Kensington. What they will gain by so doing we are unable to see, for they will be powerless to do away with the Wallsends of the North, the Silkstones of Derbyshire and Yorkshire, the Arley seam of Lancashire, and the bituminous coals of South Wales, so far as the London market is concerned. A few enthusiasts and members of the societies we have alluded to may adopt it, but so far as the London trade is concerned it will be a mere drop in the ocean. The owners of anthracite mines in South Wales, as might be expected, favour the project, for it is to their interest to do so, seeing that it is a description of coal that is not much enquired for, although well adapted for many purposes other than domestic coal the value of it was, of course, fully dilated upon, and a motion was agreed to that the Great Western, the London and North-Western, and the Midland Railway Companies be asked to co-ope

considered, whilst it will be proposed that the underviewer should hold a second-class certificate, and deputies and firemen be examined as to their knowledge of gases, &c., before they are allowed to act. The subject of inspection is to be discussed, and also the driving of drifts or headings in opening new mines, and the necessity for more shafts. The use of powder for blasting, and the more rigorous carrying out of the 30th, 60th, and 61st clauses of the Mines Regula-Act insisted upon. Then for discussion, there is to be the ventilation of mines examination of the workings by the mines, additional tion of mines, examination of the workings by the miners, additional Inspectors, lectures to the men, danger signals for showing atmospheric changes to be placed in all mining centres, safety-lamps, fatal accidents, &c.; the necessity for having ambulances ready in case of accidents, the true weighing of every corf sent out of a mine that instrument was not invented until years after was altogether on its reaching, and the periodical inspection of the weighing machines. The last question for consideration is the best means to ensure better organisation of working miners throughout the country.

The above, which is a mere enumeration of the subjects to be con-graph within the definitions of the Acts of 1863 and 1869. It was

sidered, show the importance that will attach to the conference if it proves a really representative assembly, in which case doubtless the conclusions arrived at will have considerable influence on future legislation relating to coal mining. Seeing, however, that some of the past legislation has only increased the cost of coal without improving the miners' wages, but rather the reverse, it is to be hoped that moderate counsels will prevail, and decisions come to of a practical and beneficial character.

COLLIERY EXPLOSIONS.

COLLIERY EXPLOSIONS.

The late explosions have been of a most violent character, and it is very remarkable that the last three have all occurred about the same time of day, or, rather, of the night, from 1 to 3 o'clock, A.M. They have all occurred, in fact, during the working of the night shift, and the question naturally arises how this curious circumstance is to be accounted for. Possibly it may be putdown simply as a coincidence; it does not appear to be probable that any atmospheric changes occurring in the night as compared with the day can be found to account for it. Dreadful as the result of these explosions in the loss of life and property has proved to be, if they had occurred during the working of the day shift the result would have been much more disastrous, and it is evident that if colliery owners are to continue liable to those accidents, and also to heavy damages for loss of life under the new Act, which comes into operation shortly, absolute ruin may overtake men of moderate means any day. There is no doubt that in many cases there is more danger of the occurrence of an explosion during the night shift than during the day when it is not necessary to fire a bots to blast the coal. There is no blasting whatever taking place during the day shift in such mines, and any necessary blasting at stone work on the roads, at faults, &c., is done under special supervision at night, also in many cases when coal working is not carried on at night only shift men and stone men are in the mine. It is obvious that in those cases the danger of an explosion must be reduced; the attention of the men who have charge of the shift and roadway men, and the supervision of shot firing, is not distracted by the men and lads engaved in coal getting, and it must also be by the men and lads engaved in coal getting, and it must also be

It is obvious that in those cases the danger of an explosion must be reduced; the attention of the men who have charge of the shift and roadway men, and the supervision of shot firing, is not distracted by the men and lads engaged in coal getting, and it must also be observed that in those cases comparatively few hands are employed, only a few hewers being employed, who are engaged in loading the wagons left empty when coal drawing in the day shift has closed. It is hardly necessary to observe that all fiery mines must of necessity be worked with locked safety-lamps, and shot firing in such mines must also be reduced to the narrowest limits possible, and when absolutely necessary should only be practised under the most careful supervision. But the main point still remains—that is, the prevention of accumulations of gas, not only in the roads and working places, but also in the goafs and old disused workings. That this is a matter of much difficulty is well known to all practical men. No doubt large quantities of air are put in circulation, but the area of the works to be ventilated has also been largely increased. The coal worked per day by one or two shafts has been increased during the past 30 years about five-fold; 30 years ago 400 tons per day was a fair quantity for one pit, from 80 to 100 hewers being employed; now five times this quantity is raised in some cases, and about 500 hewers are employed, and the area of the workings has, of course, been extended in proportion. This is an absolute necessity. So that it is clear that as improvements in ventilation have been made the extent of the workings have been vastly increased, and there is little doubt that the externey violence of the late explosions is due

been extended in proportion. This is an absolute necessity. So that it is clear that as improvements in ventilation have been made the extent of the workings have been vastly increased, and there is little doubt that the extreme violence of the late explosions is due to the fact that large quantities of air are in circulation near the shafts in the main intake and return air ways, those airways, of course, being very large in area. Accumulations of explosive mixtures under ordinary circumstances in the workings, roads, or goafs ought certainly not to be tolerated, otherwise a defective lamp, an explosive current, or the firing of a shot, may possibly cause a catastrephe more awful than any hitherto experienced, if an explosion occurs in a mine when (say) 700 men and boys are employed.

It has been proposed to put down bore-holes into goafs, or at the edge of the rise workings, where much difficulty is met with from gas, that is from the surface, and as holes can now be put down rapidly and cheaply by mechanical power there is no reason why the experiment should not be tried. A bore-hole from 8 in. to 12 in. in diameter, and a small fan placed at the top of such hole might possibly prove of very great benefit. If Mr. Plimsoll had adopted this scheme instead of proposing to insert a pipe for the purpose of bringing the gas back to the upcast shaft his plan would have been more worthy of attention.

We have already remarked on the extreme violence of the late explosions, and this appears to be due to the large quantity of air in circulation, paradoxical as it may appear; it is probable it may be found that the great defect of the present system is the position of the two shafts, the whole of the return air, more or less vitiated, having to be brought back nearly to the start when the coals have to be drawn, and which is the only outlet for the men. It is possble that it may be found that this system may be improved, and that where the coal field is large a different position for the shafts, or an increased number safe. The present system entails great expense in forming air-ways of large size and great lengths, and any change in the position of the shafts, or increase in the number of them, or the introduction of bore-holes, would reduce the cost of making and maintaining those air-ways to a considerable extent.

THE TELEPHONE, AND INVENTORS' RIGHTS.

Although everyone will regret that the inventors of so beautiful an instrument as the telephone should be deprived of one iota of the credit due, or of one penny of the profit to accrue from the discovery, it will be obvious, even to those whose minds are untrained in legal matters, that whether considered as a question of law or of equity, it was impossible that the use of the telephone, as it was intended to use it, was an infringement of the monopoly of the Postmaster-General over the telegraphs of the United Kingdom, for which the country paid heavily but a few years since. As Mr. Justice Stephens pointed out, the Postmaster-General was, by the terms of the contract of purchase, to have the exclusive privilege of transmitting messages But those who propose to keep the Metropolis free from smoke itself, ghave a by no means easy task before them. At the same time we wish the Fog and Smoke Committee of the National Health Society the most complete success in their endeavours to do away with two most unpleasant and annoying elements connected with our atmosphere.

The Proposed Miners' Conference at Manchester.—The conference of miners, convened for Jan. 10 next, and to be held at Manchester, it is said is likely to be the most important that has yet been held of representatives of the mining body. It is stated in the circular which has been issued that further [legislation is rendered necessary by the development of coal mining since the passing of the Act in 1872, and the many calamitous explosions that have taken ployers' Liability Act, together with the action of such districts as have contracted out of it. The responsibility of chief managers, who ought to be responsible for the safety of the mine, is also to be considered, whilst it will be proposed that the underviewer should hold a second-class certificate, and deputies and firemen be examined as to their knowledge of gases, &c., before they are allowed to act. this was the telegraphic communication.

That sound is transmitted by the telephone is not pretended by uny electrician with any pretension to scientific accuracy, and before a learned society none would be less likely than Messrs. Graham Bell, Edison, Hughes, or men of similar rank, to support such a contention; and the contention for the defendants that the Acts of Parliament of 1868 and 1869 could not refer to the telephone because

then argued for the defendants that the Legislature never applied the Acts as against telephones. Of course, in one sense the Legislature did not refer to the telephones before they were invented, but the words of the Act were wide enough to refer to future discoveries in electric science. It was difficult to suppose that the Legislature intended to grant a monopoly so liable to be evaded and to be construed in so limited a sense in a science which was one of the most progressive known at the present time. The defendants then sought to establish a difference between a telephone and a telegraph, because in the latter case messengers, transmitters, and signals were requisite, whereas there was no such requirement in the former instrument. In the opinion of the Court, however, such requisites were only links in the chain, and signals were only imperfect substitutes for words If the Court decided in favour of the defendants upon these grounds it would have to be said that imperfections in the instrument were essential to the apparatus, and that their removal would be a destruction of it.

tion of it.

Now as a matter of fact the telephone no more transmits sound (unless we take the word transmission in a figurative sense) than a pianist or a drummer, and in the case of the telephone the difference between it and the roughest needle instrument is merely one of degree. The telephone is a marvellous advance toward perfection no doubt, but its action involves the application of similar arrangements in every respect. The sound is not in any sense transmitted by the telephone, but the transmitting and receiving instruments are made so extremely sensitive that their vibrations when the electric current passes through them correspond so accurately that sound made so extremely sensitive that their vibrations when the electric current passes through them correspond so accurately that sound waves are produced by the receiving instrument in every respect identical with the sound waves by which the transmitting instrument was disturbed. The means by which the telephonists reproduce the voice and Mr. Cowper reproduces the transmitter's handwriting are absolutely identical, however much the results may differ, so that the learned judge really appears to have been too lenient to the telephonists when he remarked that reference had also been made to Cowper's electric writing instrument and Hughes' spelling machine, but no real distinction existed between those instruments and a telegraph, and it was difficult to see what difference existed for the purposes of this case between Cowper's instrument, which might be degraph, and it was difficult to see what difference existed for the purposes of this case between Cowper's instument, which might be described as an elongated pen, and the telephone, which might be described as a long speaking trumpet. Considerable discussion took place upon the use of the words message or communication in the Acts, and upon reviewing the use of those words in the statute it was evident no such narrow or restricted meaning of the words as contended for by the defendants should be adopted as to confine them to the application to a written message handed by a clerk or a messenger. The defendants further contended that if the telephone infringed the statute the use of the instrument in the manner adopted by them brought it within one or other of the exceptions of the Act of 1868. It was urged that under those exceptions two persons would be able to keep a telephone for the purpose of communications in-

infringed the statute the use of the instrument in the manner adopted by them brought it within one or other of the exceptions of the Act of 1868. It was urged that under those exceptions two persons would be able to keep a telephone for the purpose of communications interesting to both of them, that strangers would be allowed to use the instrument provided no charge was made upon them, and that such wires could be connected with similar wires until the whole kingdom was covered with a network of telephonic communication. Such a result would be against both law and fact, especially as in the present case the wires were not owned or maintained by the subscribers nor used exclusively by the owners. There was also a charge made upon the subscribers in the shape of rent for the transmission of messages, from which sum the defendants acquire profit.

Taking all the arguments into consideration, the Court gave judgment for the Crown with costs, with a declaration to the effect that the defendants had infringed the Act, that an injunction should be issued staying the use of the telephone by the defendants, and an order for an account to be rendered by the defendants and undersore received and messages sent, and the Court also held that all subscribers as well as the defendants were implicated. Mr. Webster said the defendants undertook to keep the best accounts they could as to the number of persons who were put in communication with one another, and as to the money received on account of messages transmitted: There was no suggestion of mala fides in the matter. The Attorney-General would be to leave the matter entirely in the hands of their lordships. Mr. Baron Pollock said the impression of the Court, from a general view of the case, was that there would be no flarm done, either to the Postmaster-General or to the public, in allowing the company to continue its operations for the present, subject, of course, to treat the defendants fairly and properly in all respects. They had brought before the public a beautiful in

NEW ROCK-DRILL AND AIR-COMPRESSOR.

NEW ROCK-DRILL AND AIR-COMPRESSOR.

The economy of machine mining depends so largely upon the perfection of the machines that every step in advance is of the utmost importance, and the latest Californian air-compressor certainly appears to be among the best both for compactness and efficiency; it is the invention of Mr. Henry Richmann, of San Francisco. The bed-plate and standards or pillars are made hollow, and on the upper plate is formed a tube connecting the upper end of these standards, and the whole space thus connected serves as a reservoir for the air compressed by the air piston. The steam-cylinder is placed on the bed-plate, and has two piston-rods connecting with a cross-slide above. The air-compression cylinders on the upper plate also has double piston-rods, which are connected below to a cross-slide. Guide-rods keep the motion of the slotted cross-head in line, sliding claps fitting around these guides form the cross-head, and preventing lateral motion by their peculiar construction.

Combined with these cross-heads is a peculiar three armed or compound crank, by means of which the inventor is enabled to utilise the power of the engine in a most economical manner for compressing

pound crank, by means of which the inventor is enabled to utilise the power of the engine in a most economical manner for compressing the air. Ordinarily the crank of the engine operates a shaft on which there is another crank for communicating motion to the piston of the air cylinder. This necessitates the air-compressing engine being some distance from the engine cylinderand very much out of a direct line, and the air-compressing appliance is correspondingly enlarged. Neither of the three arms of the compound crank are in line with one another, nor is either one at right angles to any other, but they are so arranged with relation to each other and the crank-pins that the greatest power of the engine is exerted at its most effective point, with relation to the air-compressing piston—that is to say, at the moment when the air in the compressing cylinder has been half-compressed by its piston being moved halfway up, then the crank of the engine cylinder is nearly at right angles to the line of travel of the piston of the engine cylinder, and at its most effective point for exerting the pressure necessary to compress the already partly compressed air in the compression cylinder. The same is in the case on the down stroke. on the down stroke.

The air piston commences its return stroke before the engine piston has reached the end of its stroke, and the peculiar connection of the two cranks and their uniting arms with the sliding boxes on the cross-slides is such that as the engine begins to reach the highest or lowest point of its stroke it is forcing the sliding box of the air piston cross-slide transversely to one side of its slotted cross-head, and this box becomes nearly stationary at the time when the engine crank is passing its dead point, so that the absolute work of the engine is at a minimum while the crank is passing the dead point. After pass-—the whole apparatus, taken together formed a wire which was used for the purpose of telegraphic communication. Instruments were connected with it in order to convey information by electricity, and ing that point the power of the engine crank increases until it reaches a position at right angles with the line of travel of the piston, and is exerted as a direct thrust upon the sliding box through its connecting arm. By the peculiar formation of the cranks and bringing the ing arm. By the peculiar formation of the cranks and bringing the two cylinders nearly in line, two complete cranks do not have to be formed, but the central arm which unites the two crank pins serves to transmit the power of the engine to the piston of the air compressor. This arm revolves bodily around the axis of the shaft, as both its ends are connected with the crank pins, and its action is, therefore, that of a pitman or connecting rod, its peculiar movement being made possible by the action of the two transversely moving boxes and their vertically moving slides.

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This mechanism makes it possible, adds the Mining and Scientific

Press, to compress air to 140 lbs. with 70 lbs. of steam, the compressor having steam and air cylinders of the same capacity. By having the double piston-rods, whether the valves are in the cylinder head or in the piston, said valves may be of large diameter, as they may come between the piston-rods. With a large area for the valves their action is rapid and free. With the piston-rod in the centre not half the area can be utilised for valves and seats, but with double rods over half the area may be utilised. An air compressor to run two 3-inch rock-drills is about 4×4 by 7 ft. high, and weighs about 2500 lbs. The compressed air is stored in the frame and base, as previously stated, the frame being the air receiver. The compressor is strongly and well made, and after having been tested about a year has been introduced into several mines on this coast.

COLLIERY EXPLOSIONS, AND AMATEUR ENGINEERS.

year has been introduced into several mines on this coast.

COLLIERY EXPLOSIONS, AND AMATEUR ENGINEERS.

At the general monthly meeting of the South Staffordshire and East Worcestershire Institute of Mining Engineers, held in the Mining Museum, Dudley, on Monday (Mr. W. F. Hayward, President, in the chair), Mr. Tom Parton, F.G.S., read an interesting paper on the Phenomena of Springs, after which Mr. Henry Johnson, sen, called attention to Mr. Plimsoll's article on "Explosions in Mines, and their Care." Mr. Johnson said it was at all times a pleasing duty to refer to anything which had been written on their profession when there was a philanthropic and a sensible object in view. But when they found misrepresentations or ignorance, however good the object was to be, it would have been better had the writer left the subject alone. In the article writen by Mr. Plimsoll he took exception to everything with such pain as he had the article in question. In the first place Mr. Plimsoll asked "Can we, then, unmask this gas? Can we make it visible to the eye, like smoke or steam?"—" If you take some half sheets of note paper, and trace upon it with a came!'s hair pencil, dipped in acetate of lead a single word, like 'beware,' 'run, ''escape,' or 'fire,' and then take any one of these, and expose it to sulphuretted hydrogen, each of these words, although up to that time totally invisible, would become black in a few seconds."

It was Mr. Johnson's opinion that the safety-lamps would do all that was suggested and do it quicker. Mr. Plimsoll then went on to say—"If a vertical recess were chased in the side of a passage or place in the pit in the coal, and the front were glazed, leaving open the top and bottom, and if then a baloon of collodion, like the children's toys, were filled with a lighter gas than would remain at the bottom of the stratum of the gas, because kept down by the weight of the envelope enclosing it." Mr. Johnson held that if this recess was in the coal it could not stand the strain of a pit at work, and

retted hydrogen."

Further on Mr. Plimsoll talked about "then gas, pure and simple, would be drawn off, or if the outlet at bank were left open it would come of itseif, would syphon itself out up the shaft. It would be easy to test from time to time with a light what was being drawn off, taking the precaution to disconnect the sample." In conclusion, Mr. Plimsoll summarised his suggestions in the hole and in the roof, and he (Mr. Johnson) was sorry to see so able a man write so on a subject he himself confessed he knew but little about.

Mr. T. Parton said there was more ignorance in some of the newspapers, and leading newspapers too. The Daily Telegraph spoke of carburretted hydrogen as a very heavy gas.

Mr. Farnworth thought somewhat similar ignorance existed among their legislators in the House of Commons, considering that they produced such Bills.

The President said it was scarcely possible to take up a newspaper.

produced such Bills.

The President said it was scarcely possible to take up a newspaper immediately after an accident without finding mistaken remarks on the cause and effect of the accident. He had a case in his mind in which a breakage was said to be due to want of care in inspection, although the machine was looked over every day. Of the practical value of such discussions as these it is scarcely possible to speak too highly, and both Mr. Johnson and the Institute are entitled to warm congratulations for bringing the matter forward.

THE DYNAMITE MONOPOLY .- The West Briton remarks-" All THE DYNAMITE MONOPOLY.—The West Briton remarks—"All our correspondents concur in saying that miners should take action as soon as possible. It appears monstrous that miners in Cornwall should have to pay 2s. per pound for that which can be obtained for 10d. in Germany. It is said that the Dynamite Company paid a 50 per cent. dividend last year, and if this is so they could afford to make an important reduction in the price of this article. We have not the exact figures before us, but we presume that such a mine as East Pool would pay for dynamite from 60l. to 80l. per month—from 700l. to 900l. a year. The saving of one-half of this cost would be very important to this one mine alone. Probably Wheal Peevor, a much smaller concern, where the ground is softer. Wheal Peevor, a much smaller concern, where the ground is softer, would pay from 201. to 301. At any rate it is incumbent that a meeting should take place as soon as possible, when the matter could be discussed, and the business put on a proper foundation.

THE ELBAN IRON MINES .- It is stated that next June th THE ELBAN IRON MINES.—It is stated that next June the Governmental concession of the iron mines of Elba to Bastogi and Co. will terminate, and the question is now being discussed between the Minister of Marine and the Minister of Agriculture and Commerce whether to renew the lease, or whether the Government will take the mines into their own hands. Some time ago they entertained the idea of establishing a large foundry in Elba, in order to work the iron ore on the spot, which would certainly be a great advantage, as it is at present nearly all sent to England to be manufactured. Last year the Ministry of Marine alone paid taxes on constructive material amounting to more than 60,000 lire. The Government has the greatest desire to encourage national industry, but the means are often wanting. The result of the consultation between the two ministers will decide whether itsely, under direct and commercial administration, will be able to profit by its native mines.

by its native mines.

Throat Irritation.—Soreness and dryness, tickling and irritation, inducing cough and affecting the voice. For these symptoms use Epps's Glycerine Jujubes. Glycerine in these agreeable confections, being in proximity to the glands at the moment they are excited by the act of sucking, becomes actively healing. Sold only in boxes, 7½d., and is. 1½d., labelled "James Epps and Co., Homecopathic Chemists, London." Affecter received: "Gentlemen—It may, perhaps, interest you to know that, after an extended trial, I have found your Glycerine Jujubes of considerable benefit (with or without medical treatment) in almost all forms of throat disease. They soften and clear the voice. In no case can they do any harm.—Yours faithfully, Gordon Holmes, L.R.C.P.E., Senior Physician to the Municipal Throat and Ear Infirmary."

KAPANGA GOLD MINING COMPANY OF NEW ZEALAND.

The details contained in the subjoined report will be of interest to the shareholders generally:—

GENERAL FORMATION—Professor Hichstetter, the eminent GENERAL FORMATION—Professor Hichstetter, the eminent GENERAL FORMATION—The objoint of the theory and the state of the shareholders generally:—

GENERAL FORMATION—The first gold found in New Zealand was discovered on the present site of the Kapanga Mine, in 1851, by two Californian miners, Messers, Charles and F. Hing, by finding the Kapanga lodes cropping up in the bed of the Driving Creek, yielding knocked and washed off the backs of the lodes by the action of the Kapanga lodes cropping up in the bed of the Driving Creek, yielding knocked and washed off the backs of the lodes by the action of the Government with the natives, and the field opened to miners, when a large "tash" look place of some hundreds of australian diggers, who eagerly seem the found what amount of gold was obtained at this period.

The GID KAPANGA COMPANY was formed in Auckland, in 1844, when the somewhat systematically by pumping, winding and steam-crushing machinery, which enabled the shart known as the "Coronavielle engine-shall" to be unit position, and intersected the lode at about 50 r. deep at the active to go deeper. The company then foolishly fixed a small two or three borse, were a small position, and intersected the lode at about 50 r. deep at the active to go deeper. The company then foolishly fixed a small two or three borse, lower and the share of the lode the engine beam of distalled, which immediately stopped the mine and killed the company. The far as he could sink, and also said the best month's return or gold sold for as a book and sold sink, and also said the best month's return draing and the fool to go deeper. The company then foolishly fixed a small two or three borse, lower the washes of the long that the fool to go deeper. The congrany then foolishly fixed a small two or three borse, because the said of the professor of the said of the professor of the said of the pr

THE WEEK.

THE WEEK.

SATURDAY, DEC. 19.—Most American securities closed higher. The arrival here of the President of the Philadelphia and Reading Railroad was announced, and the shares were actively dealt in at \$27%. It is thought a meeting may be held by Thursday. Eric shares finished at \$49%, and are now at the highest point reached for some time past. The announcement of a good dividend by the La Pista Mining and Smelting Company sent the shares up to 2L, and induced considerable business. Devon Consols fell 10s. Marke Valley receded to 1½.

All the changes in home railways were adverse, the little business doing being mostly selling. Brighton, A, gave way ½ per cent., to 147.

MONDAY.—To-day holders of foreign bonds had their turn of depression. Unified, of late so strong, and on Friday de sit in at 70, tumbled down to 68%. Little Turks from being 12% relapsed to 12%. Treasury Bonds closed 1 down. Brighton. A, finished at 147. Canadian lines were fairly firm. Trunk Ordinary rose ½, to 25, and the Second Preference ½, to 94. Eric shares were dealt in at \$50, 20 con Consols. 163; East Locall, 4½, 5; Hingston Down, 1½, ½; Marke Yalley, 1½, ½; Fontino, 4½, 5½; Elagstaff, 1½, 1½.

TUESDAY.—At the opening Unified was very little over 65, subsequently rallying to 63½, but ultimately closed only ½ better on the day. Turks could be brught at 12 during one period of the day. The last price showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no change. Mexican declined ½ per cent., and 14 brurds ½ showed no

shares to be quoted in the Official List, and an active business is now being done in them. Orders to buy appear to come mainly from the country. During the last day or two there has been more doing in Canadian Copper, on report of a good discovery at the mines. Most shares of home mines close particularly dull, with nominal quotations, where selling is sought to be done. It is espected that the next Egyptian Budget will show a surplus of over 200,000. With the scarcity of safe investments it is surprising that the "bears" this week were able to knock down Unified—certain of 4 per cent. as a minimum—from 70 to 68.

FERDINAND R. KIRK.

WEST PEEVOR.—At the meeting on Dec. 16, the accounts showed a debit balance of 1197. A call of 8s. per share was made. The report of Capt. White stated that the prospects are exceedingly good, and as soon as the communications referred to in the report were made, the agents anticipated that no further calls would be required, but large and profitable returns be made to the company, and they hoped good dividends declared. It was resolved to communicate with the secretaries of the Polytechnic and the Mining Institute, with the view of taking action in the matters of the dynamite monopoly, as being extremely prejudicial to Cornish mining.

CAPITAL WANTED FOR MINING PURPOSES IN NORWAY
Copper Ore realising 14-25 per cent. of Copper, according to
Dr. Weiss' Certificate 1027, dated Hamburg, 2nd December, 1880.
Apply to H. BAUERMEISTER, 51, Schauenburgerstr. Hamburg.

TO MINING ENGINEERS AND EXPERTS.

WANTED, IMMEDIATELY, a THOROUGHLY COMPETENT and EXPERIENCED MINING ENGINEER to go to SOUTH INDIA to thoroughly inspect and report on some gold mining properties for an important firm of capitalists. The time occupied by this inspection will not be more than about six months.

Application to be made in writing to Peter Warson, Esq., 18, Austinfriars, London, E.O.; giving full particulars of qualifications, references, and remuneration per month, exclusive of travelling expenses.

TO SPECULATIVE INVESTORS.

WANTED, ONE or TWO GENTLEMEN (to join the proprietors, two in number) who have from £500 to £300 spare capital each, to put in a very promising search on land situate on the eastern side of a dale extending from 400 to 450 yards, and comprising upwards of 100 acres of land, through which several lucrative setts or veins of lead ore traverse across, and one lately has been discovered to be within a few yards of the present workings.

Apply to J. R. Davies, 29, Thomson-road, Seaforth, Liverpool.

NALYTICAL CHEMIST WANTED.—One accustomed to the Wet Assay of Copper, and the Analysis of Iron, China Clay, Phosphates, trates, Manures, &c. One who has had practical experience in a Laboratory eferred.

-Apply by letter, stating salary required, and giving testimonials, &c., to "B.R.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

AMERICAN MINES REPORTED ON.

N ENGLISH MINING ENGINEER AND CHEMIST, at present resident in the United States, will EXAMINE and REPORT ON MINES and MINING PROPERIES. Has had a number of years practical experience in most of the principal Gold and Silver Mining Districts of the West, and is fully acquainted with the best systems of Reduction and Smelting in use, and the actual cost of working. Has passed the sanguine stage of Mining, and is accustomed to base calculations on facts only. Good London references. For address and particulars, apply at the Railway News Office, 3, Whitefriars-street, Fleet-street, E.C.

TO STOCKBROKERS.

THE ADVERTISER, who has an extensive connection in Mining matters, WISHES to CO-OPERATE with a STOCK and SHARE BROKER foosition and influence for their MUTUAL ADVANTAGE.

Address, "Miner," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

THE ADVERTISER IS OPEN to an ENGAGEMENT AS METALLURGICAL ASSAYER OF MANAGER. Has had msiderable expersence in Copper Smelting.
Address, EDWARD MERRY, 28, Hagley-road, Birmingham

MINING JOURNAL."—Advertiser wishes to share with a Gentleman in taking this paper, or in exchange for the Colliery Guardian."
Address, "F. G. S.," MINING JOURNAL Office, 26, Fleet-street,

NOTICE OF REMOVAL.

MR. F. W. DABB has REMOVED his OFFICES to
65, FORE STREET, REDRUTH,
Where all communications are to be addressed. Purser of St. Aubyn United,
Wheal Jewell, and Herodsfoot.—Dec. 18, 1880.

HENRY NUTT AND CO.,

57, BRISTOL ROAD, BIRMINGHAM, PURCHASERS OF

LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, TIN ASHES, TERNE ASHES, AND ALL REFUSE CON-TAINING TIN AND LEAD.

ABBOTT, SOUND INVESTMENTS. PAGE, THE STANDARD BANK OF LONDON (LIMITED). AND CO., The Shares in this Bank, now offered, will prove a lucrative and safe investment, and will command a high premium.

Prospectus and full particulars sent post free on application. STOCK BROKERS, INVESTORS seeking Sound and Lucrative Securities should apply for our MONTHLY and WEEKLY LISTS, containing SELECTED INVESTMENTS that are paying from 5 to 10 per cent., and are as safe as Railway Debentures. 42, POULTRY, LONDON, CONSOLS, RAILWAYS, FOREIGN, and othe STOCKS dealt in at CLOSE PRICES.

TO SPECULATIVE CAPITALISTS
SEVERAL REAL GOOD AND PROGRESSIVE SHARES in GOI
SILVER, COPPER, TIN, and LEAD MIXES, also in other Companies, can
OBTAINED A BARGAIN, if bought at once.
Address, "Nemo," Target Office, Green-lane, Newland, Hull.

THE FORTESCUE (STANNAGWYN) MINE
These shares are strongly recommended for level in the strongly recommended These shares are strongly recommended for immediate purchase. We assume that the reports in this day's Journal. The present price of the large is 22. Those so and Sox, Plymouth, Secretaries.

COAL AND IRON ORE ROYALTY.

TO BE LET, in the WEST CUMBERLAND HEMATITE
DISTRICT a good-sized ROYALTY, containing both COAL
and IRON ORE, and adjoining the Cleator Railway.
For further particulars, apply to Mr. DICKINSON, Redhow, Lamp.

B A N £2,000,060 600,000 100,000

Subscribed Capital E2,000,060

Paid-up 600,000

Reserved Fund 100,000

The Court of Directors of the COLONIAL BANK hereby give notice that, in pursuance of the provisions of the Charter, a HALF-YEARLY GENERAL MEETING of proprietors will be HELD at the Bank House, 13, Bishopsgate-street Within, E.C., on THURSDAY, the 6th January, 1881, at Two-o'clock precisely, to receive the report of the proceedings of the Corporation, and for the election of five directors and one auditor in the room of the following gentlemen, who go out by rotation:—Charles Cave, Esq.; Harry Hankey Dobree, Esq., as directors; and Henry Pryor Powell, Esq., as auditor; all of whom, being eligible, offer themselves for re-election.

The Transfer Books of the Corporation will be closed on the 20th December, 1880, and re-opened on the 7th January, 1881.

By order of the Court of Directors,

JAMES CLARK, Secretary.

13, Bishopsgate-street Within, London, 10th December, 1880.

.. Adam Eyton

J. MOORHOUSE AND CO.

(LIMITED.)

CAPITAL £25,000, IN 25,000 SHARES OF £1 EACH. 5s. per share on application, 9s. on allotment.

BANKERS.
MANCHESTER AND SALFORD BANK, Mosley Street,
Manchester.

SOLICITORS.
Messrs. SALE, SEDDON, HILTON, and LORD, Manchester.

Prospectuses and Forms of Application for Shares may be obtained from Messrs. J. R. and W. P. BAINES, Stock and Share Brokers, 13, Queen's Chambers, Market-street, Manchester.

POR SALE, a SEMI-PORTABLE PIT SINKING, COAL WINDING, and PUMPING ENGINE, double 9½ in. cylinder, fitted with link-motion reversing gear, mounted on a multitubular boiler, with Bowling iron fire-box; Also WINDING GEAR, drum 5 ft. diameter, brake, and PUMPING GEAR complete, ready for immediate delivery.

BARROWS AND STEWART'S WORKS, BANBURY, OXON. TO BE SOLD, BY PRIVATE TREATY, THREE HUNDRED VERY SUPERIOR 8-ton COAL WAGONS, built in the years 1873 and 1874 by Olive, of Bury, and the Midland Wagon Company.
The whole have been very little used, and are nearly as good as new.
For further particulars, apply in writing to "Box 200," MINING JOHNAL Office, 28, Fleet-street, E.O.

STOCKS AND SHARES.

FOREIGN BONDS, RAILWAYS, TRAMWAYS, GAS, INSURANCE, IRON, COAL, and MISCELLANEOUS SHARES. Prices, with reliable information, forwarded on application to-MESSES. H. R. LEWIS AND CO.,

BARTHOLOMEW HOUSE, BARTHOLOMEW LANE, LONDON, E.C.

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SPECIAL INFORMATION in the SELECTION of MINING SECURITIES.

The "Monthly Investment List" and the "Weekly Price List" may be had on application.

may be had on application.

WHEAL HONY AND TRELAWNY.—Shares should be secured at once, as no doubt as soon as the mine is forked (certainly not later than April next) they will see three times their present price. The Oid Trelawny 615 shares sold for £300—and Hony and Trelawny will see £10. Present price, £2½ to £2½.

LAND TRELAWNY.

Capt. HANGOK says—"I have known the ground for 30 years, and worked in the Trelawny Mine, near Hony, about 24 years ago; since then was agent in the district under the late Mr. Peter Olymo. It is one of the best (if not the best) pieces of mining ground for silver-lead ore in the county, and cannot, in my opinion, lail to make a good dividend property."

Capt. MILLCOKS writes—"Whoever is fortunate enough to secure this property will have the most profitable mine in the county, and a certain fortune."

Capt. METHERELL says—"The lode may be considered proved to 300 fms., so that there is no speculation or risk. I will merely add that I know of no other property with such certainty of success."

Capt. HODGE writes—"I have not the slightest hesitation in saying that there is not another mining property in the kingdom with such prospects and such a certainty of immense profit, and having such advantages for economical and speedy development."

Mr. MATTIEK LOAM writes—"If there is any confidence in Cornish mining."

Mr. MATTIEK LOAM writes—"If there is any confidence in Cornish mining."

development."

MATTHEW LOAM writes—"If there is any confidence in Cornish mining theme is worthy of it."

Wheal Mary Ann, on one side of Hony and Trelawny boundary, and Trewetha on the other side, returned silver-lead ore wo th over £1,000,000 from the same lode, which runs direct from Mary Ann right through Hony and Trelawny, and for nearly three-quarters of a mile is virgin ground, with shafts sunk over 200 fms., and 13 ends going into rich silver-lead ore.

and 13 ends going into rich silver-lead ore.

At the laying of the foundation-stone of the engine-house, on Saturday last, the 4th inst. Mr. Matthew Loam said they had met to inaugurate what he believed was destined to become a very great and valuable mine. Mr. James Pearce said in that mine they had an exceptional property—they were not working in the dark. The property had been proved at each end, and they could almost get at the value by measurement; consequently it was not a speculation. It was nothing but an investment. Mr. Michael W. Bawden said as far as those mines were concerned there was but one general opinion of their merits, and that as soon as the water is in fork at the different levels they would commence raising ores; and that there was no speculation or uncertainty about their finding ores of a first-rate quality: 1 on of Wheal Trelawny ore was equal to 1½ ton of any other lead mine in Corawall, and equal to 2 tons of Welsh ores.

Applications for Shares to secure them at present price should be made at once to—

MESSES. H. R. LEWIS AND CO., BARTHOLOMEW HOUSE, BARTHOLOMEW LANE, LONDON, E.C.

DECLARATION OF THE SIXTEENTH CONSECUTIVE MONTHLY

DECLARATION OF THE SIXTEENTH CONSECUTIVE MONTHLY
DIVIDEND,
AT THE RATE OF NINE PER CENT. PER ANNUM.

AT THE RATE OF NINE PER CENT. PER ANNUM.

A PLATA MINING AND SMELTING COMPANY.
Incorporated with Limited Liability under the Laws of the State of
New York.
Capital 200,000 shares of \$10 or £2 each, Fully Paid.

The board of directors beg to announce that they have THIS DAY DECLARED a DIVIDEND of SEVEN AND A HALF CENTS PER SHARE, out of the profits for the month of November, being at the rate of 9 per cent. per annum, amounting to \$15,000, PAYABLE on Saturday, 1st. January, 1831, at the offices of the company, 53, Broadway, New York; and by dividend warrant—payable at the Consolidated Bank, Threadneedle street, E.C.—which will be sent to proprietors whose shares have been registered at the London office for transfers.

Transfer books will close on Friday, December 24th, and re-open Monday, January 3rd, 1831.

By order of the Board,
Dondon Office for Transfers, 21, Great Winchester-Street, E.C., 16th December, 1830.

I N E "E L C A L L A O,"
GUAYANA, VENEZUELA.

COUPONS OF SHARES...... 322

Gold in bars produced in the month of October, 1880, and remitted to Messrs. Baring Brothers and Co., London, 4269-80 oze.

DIVIDEND distributed for each coupon, \$100.

(Signed) A. LICCIONI, President.

(Signed) VICTOR T. GRILLET, Treasurer.

(Signed) (Signed)

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS,

MINEOWNERS, STOCK AND SHARE DEALERS, &c 1, ST MICHAEL'S ALLEY, CORNHILL, LONDON.

There are various things to consider in looking at the prospects of a mine and its means for profitable working. For instance, 100 or even 200 tons of lead ore per month would not pay the cost of working some lead mines; but 20 tons a month would pay the cost of D'eresby Mountain, owing to its adits and water-power. All mines worked by water power are worked cheaply, but are subject, of course, to dry weather as well as frosts. To remedy the former at D'Eresby there is now a small engine as an auxiliary when required. This is also the case at Kirkmichael.

At Green Hurth there are eight points in operation averaging $2\frac{1}{4}$ tons lead ore each. The mine has paid in dividends 2l. 14s. per share on a paid-up capital of 6s. per share.

It is said that several of the smelters have been buying largely in shares of different mines, which looks as though they expected an improvement in the price of metals before long. A rise to 100*l*. in tin and a good advance in copper and lead would set things flying at home and cure the gold mania abroad.

A correspondent asks whether, if the electric light becomes generally adopted, it will not cause a great demand for copper and copper

There is likely to be an improvement in the 108 east at Crebor; the agents are expecting it every day.

The sale of Wheal Crebor ore realised 1824l. 16s. 6d., which is less

TO COAL MERCHANTS.

THE COMMISSIONERS OF IRISH LIGHTS are prepared to RECEIVE TENDERS for the SUPPLY of the undermentioned quantities of

LEDMAHAGOW, NERQUIS, OR HEYWOOD CANNEL GAS COAL;
ALSO FOR
WHITEHAVEN SLACK, OR HOUSE COAL DROSS,
Suitable for Banking purposes, or "COKING COAL BREEZE."
A Certificate of the Coal, guaranteeing it to be from the Mine quoted, to be delivered and weighed into the Stores at the undermentioned Lighthouses, free of all charge, on or before the 1st of May, 1581. Each Lighthouse to be provided with a separate Bill of Lading.

	Cannel.	Breeze.
	Tons.	Tons.
Poore Head, County Cork	-	25
St. John's Point Lighthouse, County Down	22	23
Rockabill Lighthouse, Skerries, County Dublin	23	22
Howth Bailey Lighthouse, Hill of Howth	44	29
Wicklow Head Lighthouse, Wicklow	20	30
Hook Tower Lighthouse, Hook Point, County Wexford	35	25
Waterford Waterford	25	34
Galley Head Lighthouse, Clonakilty, County Cork	26	22

The lowest or any Tender will not necessarily be accepted.
Tenders to be delivered (through post, prepaid), at the Secretary's Office, on or before the 6th day of January, 1831, endorsed "Tender for Gas Coal." Parties may Tender for the Supply of Coal for one or more or the whole of these Lighthouses, but separate prices to be quoted for each.

Security will be required for the amount of Tender, and the Contractor shall deliver all the Coals contracted for at the prices specified in his Tender on the day above named. That if the Contractor does not deliver the Coals on or before that day, the Commissioners of Irish Lights will be at liberty to declare the Contract at an end, or to purchase and deliver sufficient Coal to complete the Contract, and the Contractor and his Securities shall pay the same.

Irish Lights Office, Dublin, December 20th, 1880.

SALE OF VALUABLE BITUMINOUS COAL MINES.

PENYGRAIG COLLIERY, RHONDDA VALLEY, GLAMORGANSHIRE,
SOUTH WALES.

MESSRS. STEPHENSON, ALEXANDER, AND CO. WILL
3rd day of January, 1831, at Three o'clock in the afternoon precisely, in such lots
as may be then determined on, the very valuable and important
COLLIERY, COKING OVENS, AND WORKS,
KNOWN AS

THE PENYGRAIG COLLIERY,

Situated at Penygraig, in the celebrated valley of the Rhonda, Glamorganshire within easy reach of the Port of Cardiff, and In immediate proximity to the Great Western Railway, with which it is connected by suitable and commodious sidings.

within easy reach of the Port of Cardiff, and in immediate proximity to the Great Western Railway, with which it is connected by suitable and commodious sidings.

The colliery, which was opened in 1859, and has ever since been extensively, uninterrupedly, and successfully carried on, is now in complete working condition, and thoroughly equipped.

The WORKS consist of a PIT, SLANT, TWO LEVELS, ENGINE HOUSES, FITTERS', SMITHS', and CARPENTERS' SHOPS, MANAGER'S HOUSE, COTTAGES, STORE HOUSES, STABLES, &c., and also SEVENTY-SIX COKING OVENS in full operation, together with TWO HUNDRED AND TWENTY NARROW GAUGE RAILWAY WAGONS.

The FIXED MACHINERY and ENGINES, PUMPS, TRAMS, WINDING GEAR, SIDINGS, and TWENTY HORSES, and all the PLANT and consumable STORES, and other the GOODS and CHATTELS at the colliery, will also be INCLUDED IN THE SALE.

The colliery taking comprises all the best veins of House and Gas Coal in the district, down to and including the No. 4 or Abergorky Vein, and especially a large unworked tract of the world-famed and unsurpassed No. 3 Bhondda House and Gas Coal, which is most favourably placed for working. The seams of Blackband, Ironstone, Iron Ore, and Fire-Clay, above the Abergorky Vein, are also included in the demise of about 458 acres of the property.

The various workings and properties connected with the colliery cover an area of 553 acres, and are held for three several terms of years, of which as to 368 acres 38 years are unexpired, and as to 158 acres 21 years have still to run.

The following are the coal royalties;—On the No. 2 coal under 273 acres of the taking, 6d, per ton.

On the Nos. 2 and 4 under 185 acres of the taking, 6d, per ton, and on Nos. 3 and 4, 7d, per ton.

On Nos. 2 and 4, under 185 acres of the property.

The various workinged, and as to 185 acres 19 years have still to run.

The royalties on the other minerals demised and the sleeping rents reserved by the several leases are moderate.

The leases may be inspected for 14 days before the sale at the offices of the under

The leases may be inspected for 14 days before the sale at the offices of the undermentioned Solicitors.

The purchaser will also be entitled to the benefit of the annual tenancies of the Penygraig Farm and of the Colliery Offices at Nos. 43 and 44, Dock Chambers, Bute Docks, Cardiff.

The colliery, which is capable of a largely increased output, will be sold as a going concern, and the goodwill be therewith concluded. There are no contracts in hand, and full advantage can, therefore, be taken by the purchaser of the upward movements in the Goal and Coke Markets, which, it is confidently anticipated, are now impending.

An unusually favourable and rare opportunity is thus presented for the investment of capital in an old-established, widely-known, prosperous, and lucrative coiliery business.

For detailed particulars, plans, and conditions of sale, and permission to view the Works, apply to the Auctioneers, Queen's Chambers, Cardiff; DAVID MORGAN, Esq., Mining Engineer, Pontypridd; DAVIEL REES, Esq., Glandare House, Aberdare; Mr. John Morgan, Solicitor, Cardiff; or to

The Auctioneers are solicitous that this Colliery should not be confounded with the Steam Coal Colliery at which the lamentable explosion recently occurred. The Colliery and Works above described have always enjoyed perfect immunity from explosions, inundations, and accidents of all kinds.

THE GREAT EAST FOXDALE SILVER-LEAD MINING COMPANY (LIMITED). IN LIQUIDATION.

TO BE SOLD, BY PRIVATE TREATY, the WHOLE of the PROPERTY known as the GREAT EAST FOXDALE SILVER-LEAD MINE,

GREAT EAST FOXDALE SILVER-LEAD MINE,
Situate in the Isle of Man, and is east of and adjoins the Central Foxdale Mine.
It is about 4½ miles from Douglas, and the railway from that town to Feel runs
through the centre of the property. The sett is of great extent, and stretches
over fully two miles on the run of the rich East and West Foxdale lodge.
There has been a considerable amount of capital expended on the mine in recting the necessary pumping and winding machinery, engine and bother houses,
offices, smithy, dressing floors, &c., &c., all of which are now in excellent con-

dition.

The mine has been opened out under experienced management. The main engine-shaft has been sunk perpendicularly \$2 \text{fms}, below the adit, and levels have been extended east and west on the course of the lode, which yielded within three years of the suspension of the mine 300 tons of lead ore, realising upwards of £3555. There is now at surface a large pile of undressed ore, and when the mine was suspended the get of ore averaged from 10 to 12 tons per month.

All information relative to this concern, copies of inventory of plant, &c., may be obtained from the Liquideters Mr. LIMES LENIE or Mr. Turnes Hygurs Hygurs. be obtained from the Liquidators, Mr. James Leslie, or Mr. Thomas Hughes, at the office, 9 and 10, Cambridge Chambers, Lord-street, Liverpool, where the working plans may be inspected.

VALUABLE GRAPHITE MINE FOR SALE.

HERBERT C. JONES, Apply to-BROCKVILLE, ONTARIO, CANADA.

ANTHRACITE COAL. ROR SALE, BY PRIVATE TREATY, a FIRST-CLASS ANTHRACITE COLLIERY, with FIVE HUNDRED ACRES of MINERAL, capable of yielding 200 tons per day, at a cost of about 3s. per ton, into truck.

Address, "Beta," care of Terry and Co., 6, Hatton Garden, Lon-

POR SALE, a FIRST-CLASS SECOND-HAND 80 in. CORNISH PUMPING ENGINE, with several 11 ton BOILERS.

Apply, WM. BENNETTS, Roskear, Camborne.

COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF JAMES WILLIS, Esq., H.M. INSPECTOR OF MINES.

NOTICE IS HEREBY GIVEN, that an EXAMINATION for MANAGERS' CERTIFICATES OF COMPETENCY, under the above-named Act, will be HELD on the 20th and 21st days of January, 1881, and CANDIDATES INTENDING TO PRESENT THEMSELVES AT SUCH EXAMINATION must, on or before the 10th day of January, notify such intention to the Secretary of the Board of the above-mentioned District, from whom all information as to particulars can be obtained.

By order of the Board,

GEO. SOUTHERN, Secretary.

10, Clayton Park Road, Jesmond, Newcastle-upon-Tyne.

N.B.—Persons who do not reside within the District are equally eligible for Examination with those who do.

THE "JAMIN" PATENT ELECTRIC LIGHT.

COMPAGNIE GENERALE D'ECLAIRAGE ELECTRIQUE.

Capital, 8,000,000 Francs.

Proprietors of the Gramme Patent Machine for Alternate Currents. J. A. BERLY, C.E., A.S.T.E., &c.,

Engineer, and Sole Agent for Great Britain and the Colonies 16, NEW BRIDGE STREET, LONDON.

PATENT TRUCK WINCHES, HAULING ENGINES, &c., for ver and underground purposes. Worked with air or steam trong, simple, and effective

A. HIGGINSON AND CO., 56, TOWER BUILDINGS, E., LIVERPOOL, W.

NOTICE TO COAL CONTRACTORS.

THE COMMISSIONERS OF IRISH LIGHTS HEREBY GIVE
NOTICE that they are prepared to RECEIVE TENDERS for SUPPLY. ING COAL to their different Lighthouses round the Coast of Ireland for the year ending the 31st December, 1881.

The respective quantities to be supplied at each Station can be ascertained on application to the Undersigned at this office.

It is optional to Contractors to Tender for supplying Coal to one or more Stations, but One Tender for Supplying the entire Coast would be preferred.

The Commissioners do not bind themselves to accept the lowest or any Tender. Security will be required for the due performance of the contract.

Tenders will be received at this office up to noon, the 6th of January, 1831, to be sent, sealed, through post, endorsed "Tender for Coal," and addressed to the Secretary.

By order, W. LEES, Secretary.

Irish Lights Office, Dublin, 20th December, 1880.

AIR - C O M P R E S S O R F O R S A L E. —
Vertical Direct-Acting, combined with Steam Engine.

Jack-etted Air Cylinder, 10½ in. diameter: steam cylinder, 11 in. diameter, 18 in stroke. Other sizes in progress.

ALEX. WILSON AND CO..

ENGINEERS,

VAUXHALL IRONWORKS, WANDSWORTH ROAD.

MINING ENGINEERS AND INSPECTORS,

22, STANLEY STREET WEST. NORTH SHIELDS

Having Inspected and Managed a large number of Mines at Home and Abroad, are PREPARED to FURNISH VALUABLE INFORMATION on reasonable terms. French and German spoken.

ALL KINDS OF MACHINERY SUPPLIED-DRESSING A SPECIALITY.

THE ONLY COMPLETE AUTOMATIC DRESSING FLOORS EXTANT.

A I EXANDER SMITH, M. Inst. C. E., CONSULTING ENGINEER and VALUER of IRONWORKS, MINING, RAILWAY, ENGINEERING, and other PROPERTY, PLANT, and MACHINERY,

1, PRIORY STREET, DUDLEY.

Mr. SMITH has been retained for nearly 20 years by some of the most prominent firms, and has conducted many of the largest valuations that have taken place in the kingdom.

Valuations for Stock Taking or any other purposes upon very reasonable terms.

Now ready, price 6d., post free 6½d.,
GOLD MINING IN INDIA: ITS PAST AND
PRESENT.

By JER. RYAN, Assoc. I.C,E. London: Kensington and Co., 2, George-street, Mansion House. E.C.

TO INVESTORS, SELECTED MINES FOR GREAT PROFITS MESSRS. THOMPSON AND SONS, STOCK BROKERS, PLYMOUTH (Established, 1858), will give intending Investors reliable information on Mines, what to seelect for profits, and what to avoid for certain loss. A stamp should be enclosed for reply.

J. B. SARGENT, STOCK AND SHARE BROKER,

Mr. J. B. Sargent, having had many years' experience in Mining, and esiding in the district of the celebrated CARADON, PHERNIX, HERODSFOOT, and MENHENIOT Mines, is in a position to GIVE RELIABLE INFORMATION TO INTENDING INVESTORS AND OTHERS.

Highest references given if required.

Bankers: Devon and Cornwall Bank, Liskeard.

MESSRS, J. TAYLOR AND CO.,
MINING ENGINEERS AND INSPECTORS,
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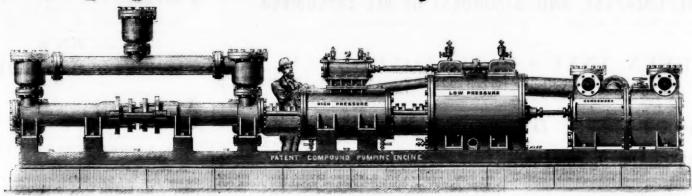
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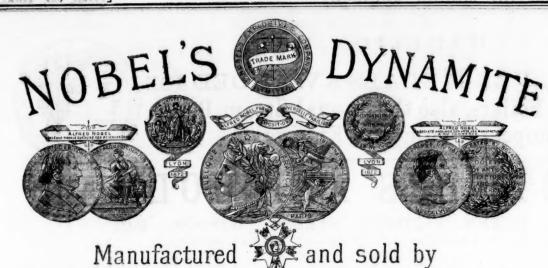
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				- 1	1	10 1	20	10								
Diameter of High-pressure Cylinder	14		8	14	10	10	10	10	12 21	12 21	12 21	12 21	14 24	14 24	14 24	14 24
Ditto of Water Cylinder	4		5	6	5	6	7	8	6	7	8	10	7	8	10	12
Ditto of Water Cylinder In. Length of stroke In.	24	2		24	24	24	24	24	24	24	24	24	36	36	36	12 36
fallons per hour approximate	3900	610	0 8	800	3100	8800	12,000	5,650	8,800	12,000	15,650	24,450	12,000	15,650	24,450	35,225
leight in feet water can be raised with	000	00		100	000	050	104	140	000	004	000			0==	100	100
40 lbs. pressure per square inch in Non-condensing	360	33	0	160	360	250	184	140	360	264	202	130	360	275	175	122
Ditto ditto ditto—with Holman's Condenser	480	30	7	213	480	333	245	187	480	352	269	173	480	367	234	162
Ditto ditto ditto-with Air-pump Condenser	600	38			600	417	306	335	600	440	337	216	600	459	203	162 203
,					CONT	INUED										
biameter of High-pressure Cylinder1n.	16	16	16	16	18	18	18	18	21	21	21	24	24	24	30	
Ditto of Low-pressure Cylinder	16 28 8	16 28	16 28	16 28	18 32	32	32	32	36	36	36	4.2	42	42	52	
Ditto of Water CylinderIn.	8	10 36	12 36	14	8	10	12	14	10	12	14					
ength of strokeIn.	15 650	36		36	12 050	48	48	48	48	48	48					
Fallons per hour approximate	10,000	24,450	35,225	47,950	13,650	24,450	35,225	47,950	24,450	35,22	47,95	0 24,45	0 35,22	5 47,05	0 35,22	5 47,
40 lbs. pressure per square inch in Non-condensing	360	230	160	118	456	292	202	149	397	276	202	518	360	264	562	
cylinder					1			-								
Ditto ditto ditto—with Holman's Condenser ditto ditto—with Air-pump Condenser	480 600	307 384	213 267	154 191	603 750	389 486	269 337	198 248	528	363	269 337	691 864				
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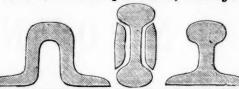
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e)	Z. Company. P. Abbot, John, and Co [L] £ 75 Albion Steel and Wire Co. [L] 14	nd.		29 Pro	28½	dis	40000. 10000.
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